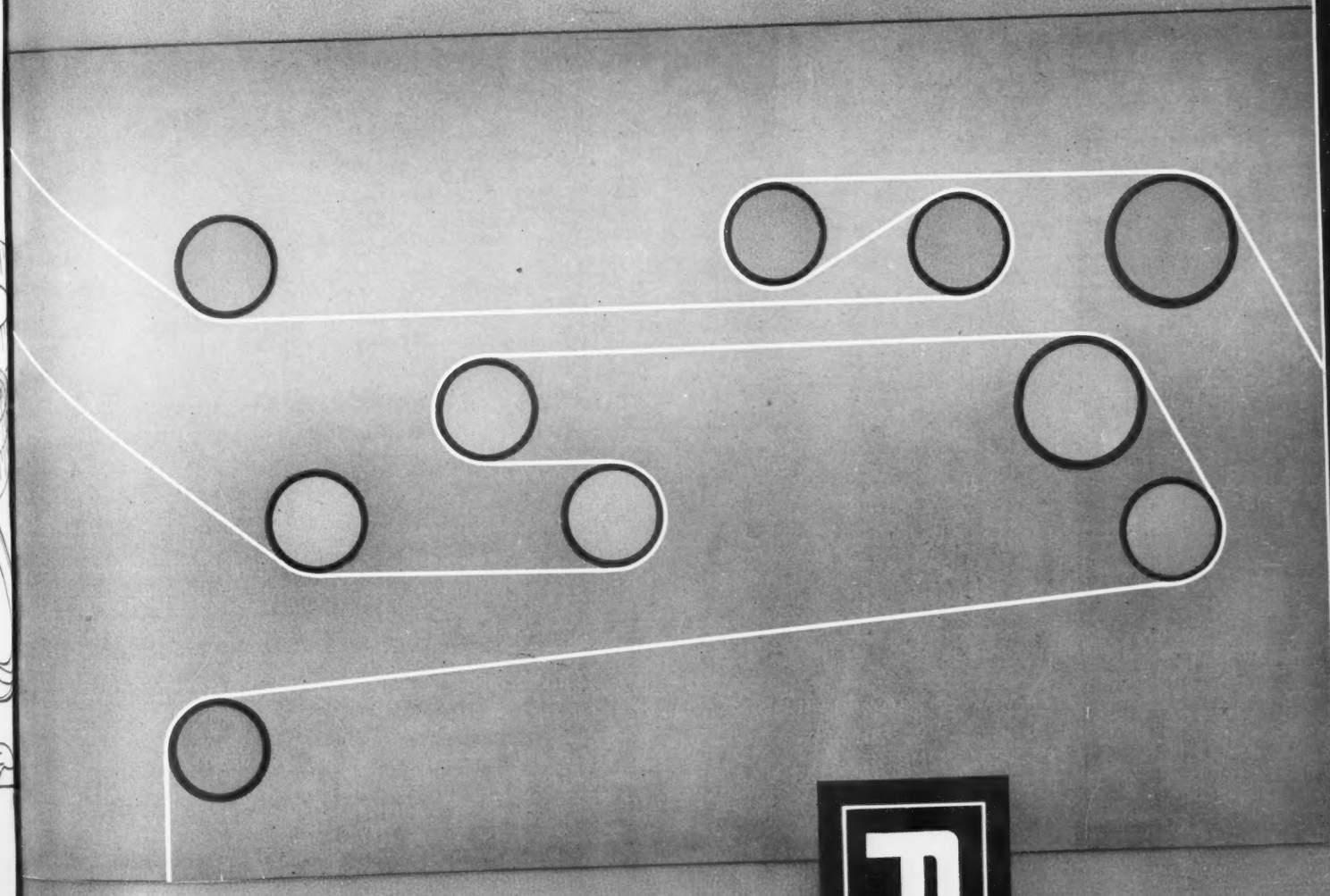
PRINTING EQUIPMENT *Engineer*



JULY, 1948

3 questions

That deserve high-priority rating among PAPER CUTTER BUYERS

TAKE SEYBOLD Heavy-Duty 40″ Precision Paper Cutting Machines.

Seybold certainly has not overlooked any opportunity to make the operator's work easier, and safer. Of course a Seybold has a clutch, clamp pressure adjustment, illuminated table and gauges, etc. We consider all of them minor to the major job of "How well", "How much" and "How long". That is why we continue to stress the importance of "Double-End-Pull, combined with Continuous Double-Shear knife action".

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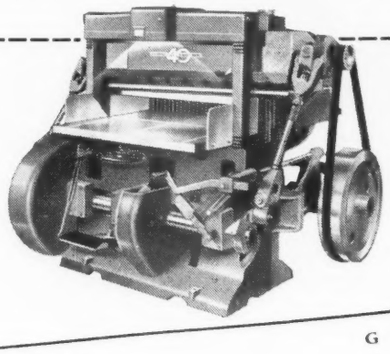

Now Available — Seybold Heavy-Duty 40″ Precision Paper Cutters

In line with our policy of "first come, first served", Seybold offers a limited number of Heavy-Duty 40″ Paper Cutters for early delivery—as soon as 4 to 6 weeks in many instances. These machines are now on display at all Seybold district offices. Send in the coupon for additional information. Better yet, stop in and see this machine in action today. Find out for yourself why "Double-End-Pull, combined with Continuous Double-Shear knife action" makes such a big difference in paper cutter performance.

G

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HARRIS PRESSES • SEYBOLD CUTTERS
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DISTRICT OFFICES: New York, Chicago, Cleveland, Atlanta, San Francisco, Toronto

OSCAR AND ZEPHYR A TALE OF
HOOD'S SARSAPARILLA
"WILT THOU BE MINE? PLEADS OSCAR—ASK PAPA"
FAINTLY MURMURS THE BEAUTIFUL ZEPHYR—
"WHAT! WED ZEPHYR, MY DAUGHTER!" FIERCELY EXCLAIMS THE IRASCIBLE VON WORSTED—"THOU SPECKLED FACED STRIPLING! NEVER, A THOUSAND TIMES NEVER!"—THE KIND READER WILL READILY PERCEIVE THAT THE IRATE VON W. IS VERY DYSPEPTIC AND BILIOUS—ALAS! POOR OSCAR
NOTHING REMAINS FOR HIM BUT THE SILENT TOMB; AND FOR THE JOURNEY THITHER HE MAKES PREPARATIONS. WHEN LO! A WISE AND SYMPATHETIC FRIEND ENTERS TO WHOM HE CONFIDES HIS SORROWS. "CHEER UP!" QUOTH THE FRIEND, "ALL WILL SOON BE WELL!"—
"BEHOLD THE MAGIC TALISMAN! USE THIS AND SOON WILL PURE NEW BLOOD BE FLOWING IN THY VEINS—SEND A BOTTLE OR TWO TO VON WORSTED'S, AND THE FAIR ZEPHYR SHALL KNOW THE PANGS OF HEADACHE NO MORE AND THE BILIOUS AND DYSPEPTIC VON W. BE SO NO LONGER."
"NEVER FELT SO WELL IN MY LIFE" EJACULATES VON W. "AND I NEVER HAVE THE HEADACHE NOW, PAPA" SMILINGLY SAYS THE BEAUTIFUL ZEPHYR. AND REMEMBER 'TWAS OSCAR WHO SENT US THIS WONDERFUL REMEDY—SEND FOR OSCAR" SAYS THE HAPPY VON W. "VERILY HE SHALL RECEIVE HIS REWARD"—
O JOY! O BLISS!! O HAPPINESS!!!
HOCKEY'S AMAZING CAL GARDNER
CAL GARDNER, FAMOUS HOCKEY PLAYER, SAYS
"YES... IN HOCKEY AND IN CIGARETTES TOO. EXPERIENCE IS THE BEST TEACHER. I'VE COMPARED MANY BRANDS. CAMELS SUIT ME TO A 'T'"
MORE PEOPLE ARE SMOKING
Camels
THAN EVER BEFORE

The character of continuity strip advertising may change, but . . .

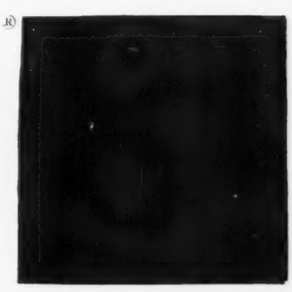
. . . good printing will always be an asset to good publishing and good salesmanship in print.

You *know* printing ink affects the quality of printed results. It affects the ease with which a paper is read by its readers, and the satisfaction with which it is read by its advertisers.

Into the making of our news inks . . . black and colored, for web presses and sheet-fed presses . . . go years of experience . . . and knowledge derived from a sustained research program which today continues its probing for technical advancement.

Why not put this knowledge and experience to work on your printing ink problem?

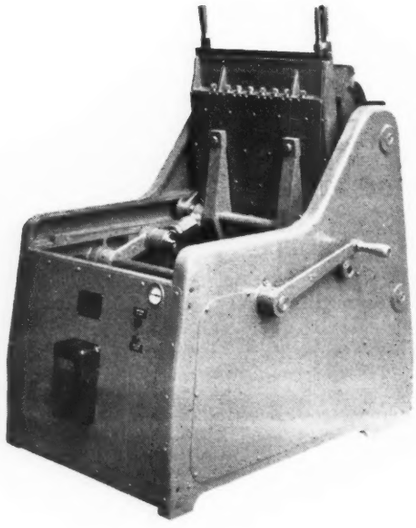
IPI, Division of Interchemical Corporation, 350 Fifth Avenue, New York 1, N.Y.



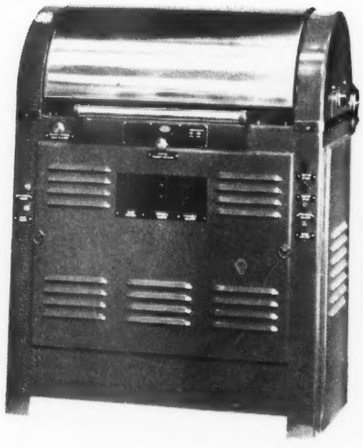
STA-HI

PREMIER ROTARY SHAVER . . The choice of progressive newspaper and commercial plants the world over for fine, precision shaving of flat plates. Just ask the man who operates one!

VACUUM FLAT CASTING BOX . . . Applies the vacuum principle to flat casting. Takes mats from small sizes up to full-page eight columns. The box is closed and lock-up made in one easy operation.



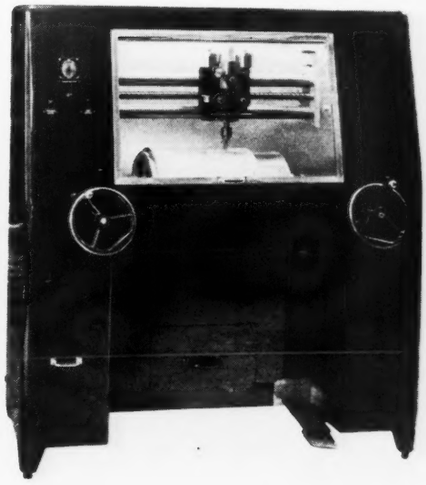
MASTER FORMER . . Universally accepted as the one machine to do a perfect job of forming and electrically baking dry mats, properly preparing them for trouble-free casting of newspaper plates.



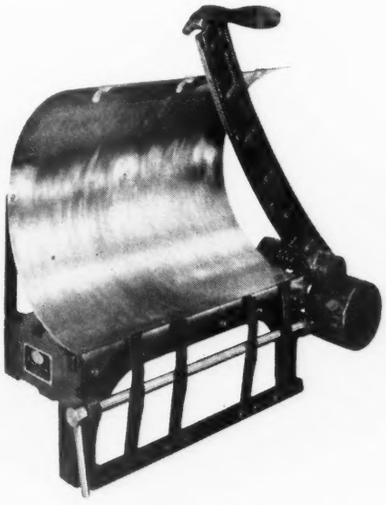
STA-HI CORPORATION • 1020 CROCKER STREET • LOS ANGELES, 21

STA-HI

MASTEROUTER. . A completely new curved plate routing machine, incorporating many radical changes in design and performing like a champion! . . See it in operation at the ANPA Conference.

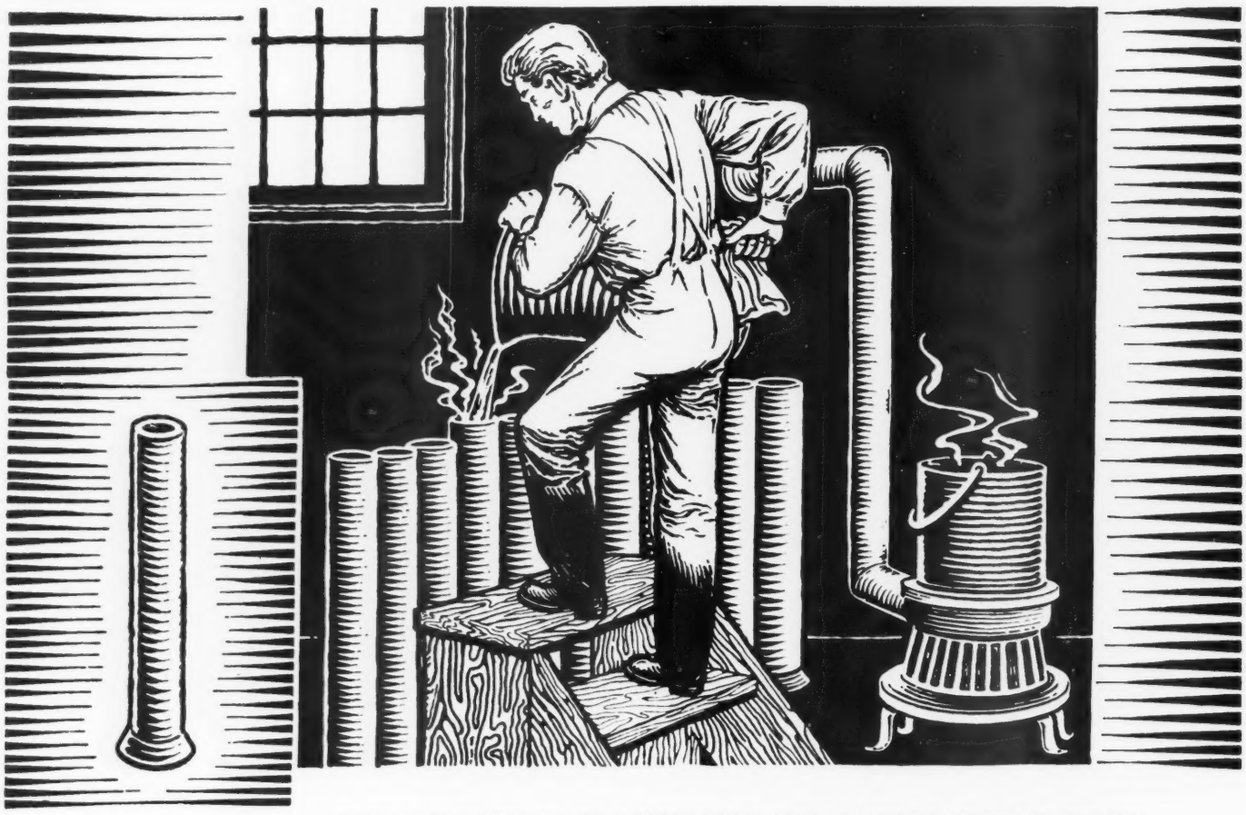


MAT PRE-DRYER. . Built to give rapid, uniform mat pre-drying necessary for obtaining present day high shrinkage . . . . Circulating hot air is accurately controlled by an electronic timer and a fine-range thermostat.



FINALTRIM . . Another Sta-Hi contribution to easier, more accurate stereotyping . . Assures an absolutely uniform clip-to-clip length on a dry mat for Auto-plate machine casting.

STA-HI CORPORATION • 1020 CROCKER STREET • LOS ANGELES, 21



HE BREWED PROGRESS IN A PRINTING SHOP

SAM'L BINGHAM was a big, sturdy man . . . a trustworthy pressman . . . and enterprising by years of hard work in many of the largest printing offices of that time. Now they were offering him a new job. The year was 1826. The work was exhausting. The hours were endless. The results were uncertain.

But to Daniel Fanshaw's able pressman, it spelled progress — he couldn't say "No" to this great challenge.

So Sam'l Bingham took the job of fashioning America's first "composition" roller. And for the first time in the history of American printing, the delicate lines of fine engravings were reproduced with the utmost clarity. Here was an invention that would benefit the high-speed machines for daily newspapers.

It was twenty-one years later, in 1847, that Sam'l Bingham was first to make a business of supplying rollers to the printing industry. Today — over a hundred years later — the same practical spirit that guided him guides his successors in research and development of rollers to meet the widely varying needs of modern printers.

THERE'S A FACTORY NEAR YOU:

ATLANTA 3
CHICAGO 5
CLEVELAND 14
DALLAS 1
DES MOINES 2
DETROIT 10
HOUSTON 6
INDIANAPOLIS 2

SAM'L BINGHAM'S SON MFG. CO.
MANUFACTURERS OF
PRINTERS' ROLLERS
LITHO-OFFSET ROLLERS

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KANSAS CITY 6
MINNEAPOLIS 15
NASHVILLE 3
OKLAHOMA CITY 6
PITTSBURGH 3
ST. LOUIS 2
SPRINGFIELD, O.

OVER ONE HUNDRED YEARS OF ROLLER MAKING

PRINTING EQUIPMENT *Engineer*

Volume 76 Number 4

A technical publication for the mechanical executive responsible for printing production, equipment and supplies in the commercial, magazine, private plant and daily newspaper field.

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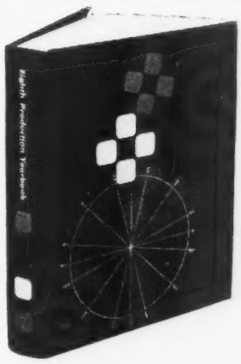

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FOR MECHANICAL AND PRODUCTION EXECUTIVES

The *VIIIth Graphic Arts Production Year Book* should be in the hands of every mechanical and production executive. Commercial and newspaper printing plant executives, will find this encyclopediac volume of constant help to them. A mass of detail which no executive can keep in mind will be found in this book.

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Size, 8½ in. by 11¼ in.; 700 pages with 900 illustrations with many beautiful color inserts by all processes. Bound in gray crash cover.

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PRINTING EQUIPMENT *Engineer*

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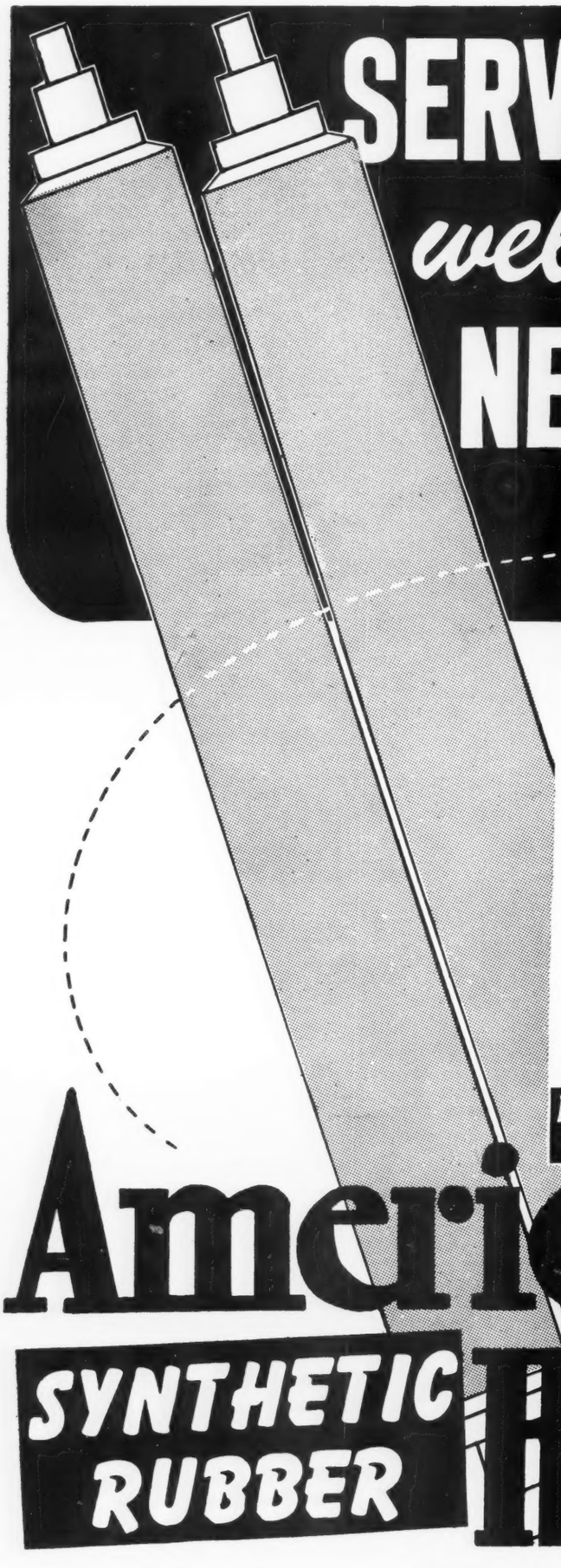

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On newspaper, magazine, rotary and offset presses they're rendering splendid performances . . . showing exceptional endurance, remarkable ink-distributing ability and a definite faculty for producing sharp impressions. Too, they're proving they don't lip . . . that they hold diameter perfectly in heat, cold humidity . . . and that they set easily and stay set. By every standard of comparison, they're great rollers. Order a set and see for yourself.

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American SYNTHETIC RUBBER Rollers

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COMPOSITION ROLLERS
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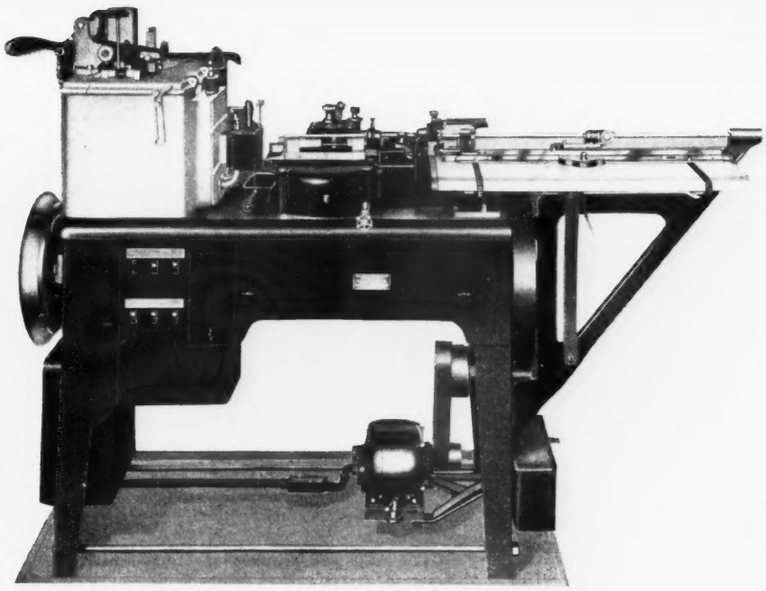

The ELROD

Supplies strip material from 1-point to 36-points in thickness—a wide range of product from a single machine. Assures abundance of leads, slugs, border rules, and base material for mounting cuts, shell casts and electros, as well as metal furniture for blocking out, or for use in makeup.

Elrod material is of high quality, being formed in the mold as a continuous strip of metal, cooled and solidified under pressure. It is uniform in height and thickness and therefore meets the exacting printing, electrotyping and stereotyping requirements of today's printers and publishers.

Simplicity of Elrod design makes for a dependable machine, with minimum upkeep costs. The Elrod consistently produces a plentiful and constant supply of quality material.

The fact that so many commercial and publication plants, newspapers and trade compositors use only Elrod for strip material needs is evidence of entire satisfaction with its production.

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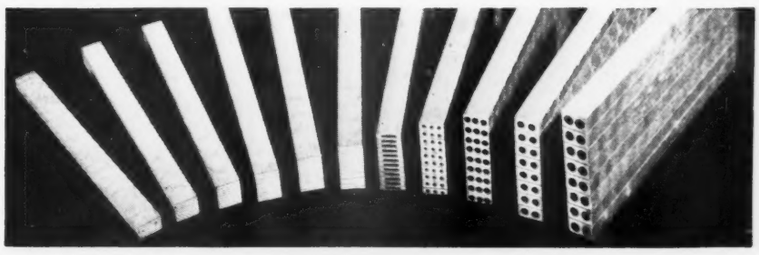
All-Slug System of of Job, Display and Ruleform Composition

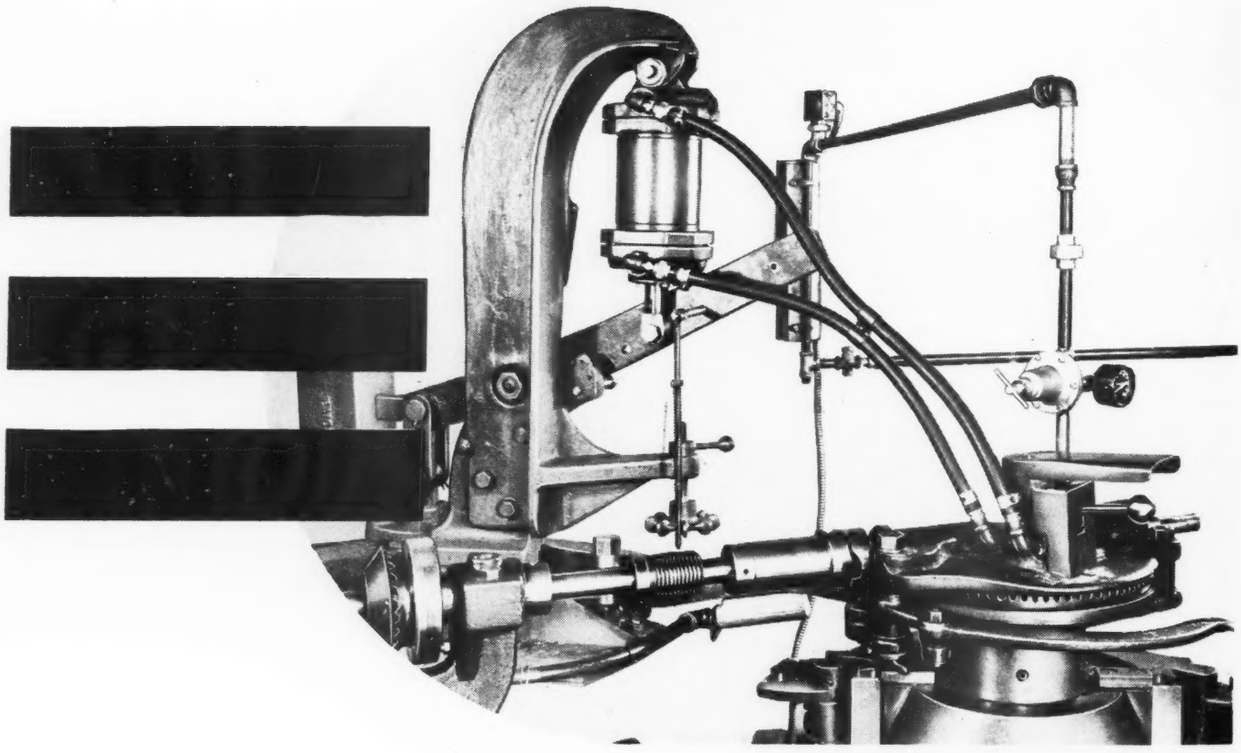


Partial showing of Elrod material from 1-point to 36-points in thickness

Ludlow Typograph Company • **2032 Clybourn Avenue, Chicago 14, Illinois**

Another Wood Development

THE NEW WOOD PNEUMATIC PUMPING SYSTEM



Now that Wood has developed a Pneumatic Pumping System—adaptable to any standard pot—hundreds of newspapers can reap the benefits of pumping molten metal into the casting box *automatically*.

There's new safety when you have the Wood Pneumatic Pumping System. Equipped with modern automatic safety devices, there's no danger of double-pour. There's also no danger of pouring when the casting box is open.

There's a minimum of effort—contrast merely operating an air valve to pumping by hand. There are fewer recasts because the new Wood Pneumatic Pump assures uniform pouring.

Best of all, the Wood Pneumatic operating attachment can be fitted to your present pump. In case of air failure, pump can be operated by hand. Made expressly to fit a Wood Junior or Pony Autoplate, it will mount on any pot a standard pump will mount on. Made with a minimum number of parts, it can be fitted by a Wood Engineer *in the field*. Inquiries welcome:

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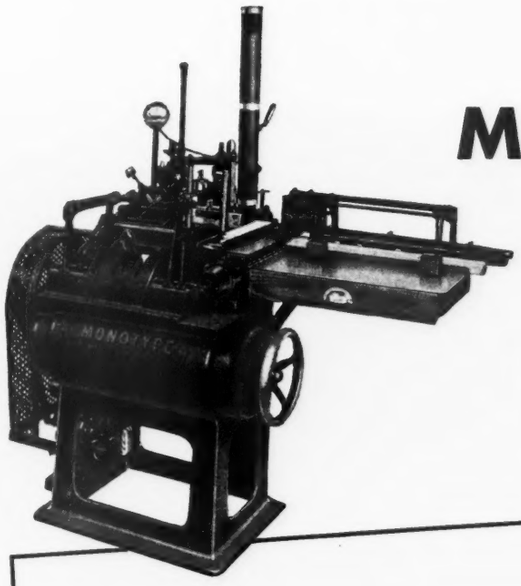
THE MOST VERSATILE STRIP-MATERIAL MACHINE IN THE WORLD



The Monotype

MATERIAL MAKING MACHINE

Continuous-Strip Material

(Cast in Strips or Cut to Measure)

Straight-Line Rules—250 designs and sizes from 1½ to 18 point, inclusive.

Leads and Slugs—Either "high" or "low," in all sizes from 1 point to 18 point, inclusive.

"High" or "Low" Base—In 12, 18, 24, 30 and 36 point (strips 24 inches long).

Flush-Side and Full Face Rules—Cast flush on one or both sides; 1½ to 12 point body.

Want-Ad Rules—Special drive for resisting mat pressure; 1½ and 2 point.

Ornamental Borders—200 designs and sizes from 2 to 12 point, inclusive.

Wavy Rules—Several weights of rule face; sizes from 2 to 12 point.

Broaching Rules—With special shoulder, several weights and sizes.

Tie-Up Slugs—12 to 36 point, any desired height.

Electrotype Bearers—12 and 18 point. With firm name repeated, to identify foundry forms.

Single-Column Material

(Not Made on Other Continuous Strip Machines)

Leads and Slugs—1½ to 12 point, measures up to 15 picas in length.

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Logotypes—Cast from slug-machine matrices in sizes from 6 to 18 point, centered on desired measures up to 15 picas in length.

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★

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"Really dependable and versatile"

"It's doing a marvelous job," writes Lloyd Beecher, from his Graphic Arts Press in Alaska. "It has surpassed our fondest hopes, handling bond, onion skin, gummed stock, and No. 10 envelopes on run-of-the-hook work without any trouble." Other important features of the ATF Little Giant are its extremely fast get-away, hairline register, speeds up to 4000 impressions per hour; and low cost per thousand impressions. Ask your ATF Salesman for full information.

Sheet sizes from 3¼x5½ to 12x18 Largest printing form—11¾x17½

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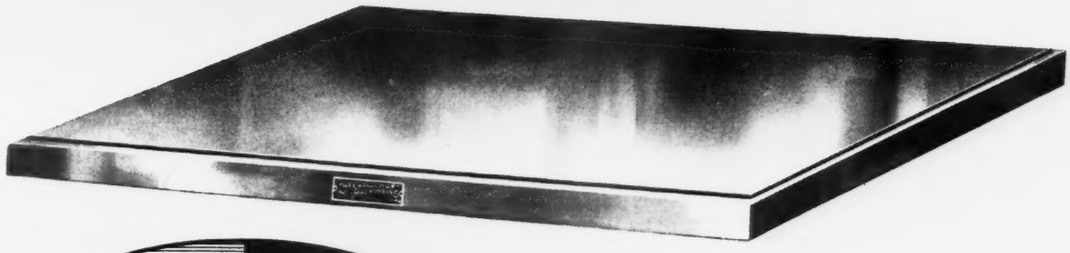

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IMPOSING SURFACE

Today's the day to replace those old-fashioned stones with precision ground, semi-steel imposing surfaces. They're rigid and true—speed up your work—save lock-up time—and last indefinitely.

Challenge Semi-Steel Imposing Surfaces are two inches thick with heavy ribs running at right angles on the underside to prevent sag. The tops are precision ground to a high degree of accuracy to provide a smooth, even working surface. No coffin is required . . . so there's no place for spacing material to get lost. Built in 18 standard sizes; furnished with or without rabbet. Ask your dealer for details and prices and ***order now!***

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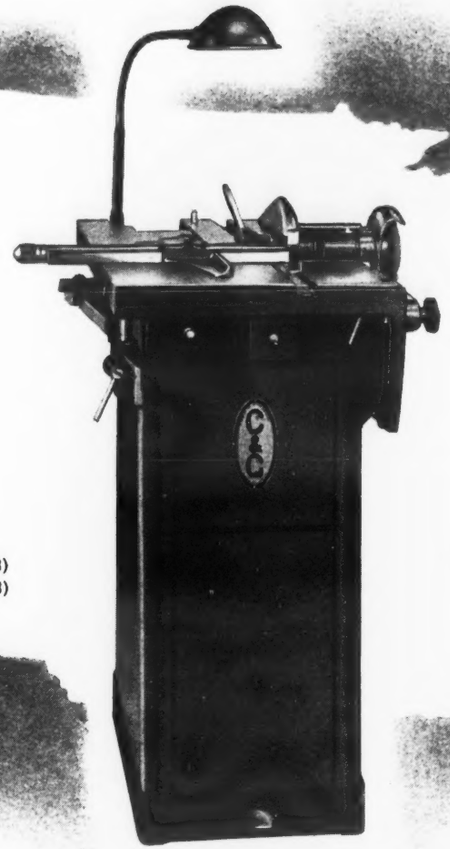
"Over Fifty Years in Service of the Graphic Arts"
DEALERS IN ALL PRINCIPAL CITIES 606

The "Stone Age" is past

Model 3-A C & G Saw Trimmers Cutting Composing Room Costs



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(5) New York World Telegram
(9) Buffalo Evening News
(5) New Haven Register
(2) Detroit Free Press
(10) Detroit News
(6) Detroit Times
(5) Newark (Ohio) Advocate
(4) Elizabeth Journal
(5) Cleveland Press
(11) Cleveland Plain Dealer
(13) Milwaukee Journal
(7) Chicago Daily News
(3) Chicago Herald American
(3) South Bend Tribune
(9) Indianapolis Star
(3) Philadelphia Inquirer
(11) Pittsburgh Press
(8) Fort Wayne Journal Gazette
(4) Fort Wayne News Sentinel
(4) Baltimore News American
(3) Columbus Dispatch
(2) Washington D.C. Daily News
(6) Cincinnati Post
(6) Cincinnati Inquirer
(2) Cincinnati Times Star
(6) Nashville Banner
(2) Birmingham Post
(2) Mobile Press Register
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(4) Orlando Sentinel Star
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(3) St. Petersburg Times
(3) Miami Daily News

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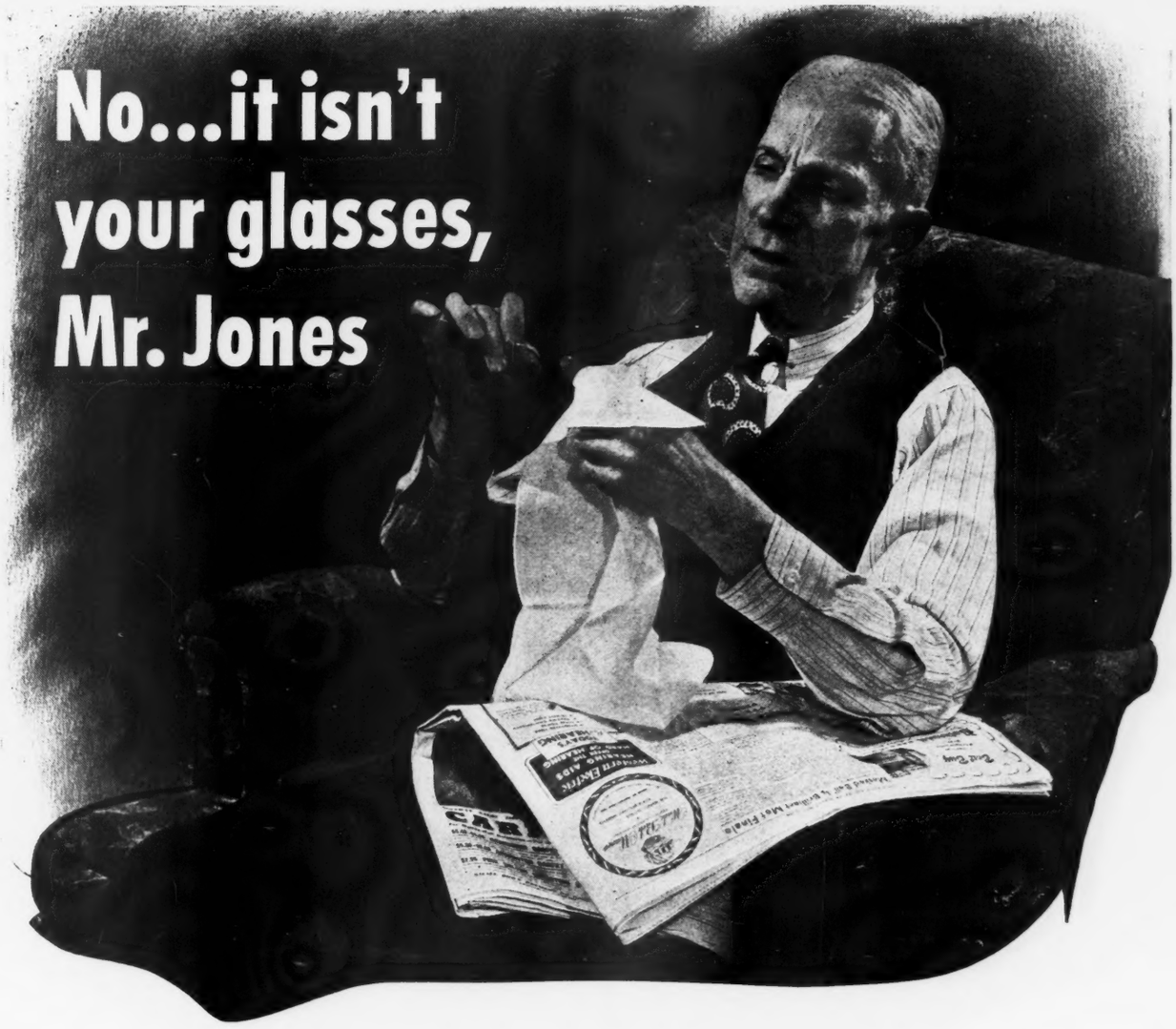

● Poor reproduction that is upsetting to readers—and advertisers, as well—is so inexcusable in today's newspapers. For great advances have been made in equipment. AND IN TYPE METAL, TOO! In the new Glidden Type Metal, you have a scientifically treated alloy which picks up the most delicate details of matrices—produces tough, sharp slugs and plates—improves color reproduction and makes long color runs possible without plating. And all this at lower fabrication cost! To convince yourself . . . put *America's Finest Type Metal* to any test in your plant.

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METALS REFINING COMPANY
Division of The Glidden Company
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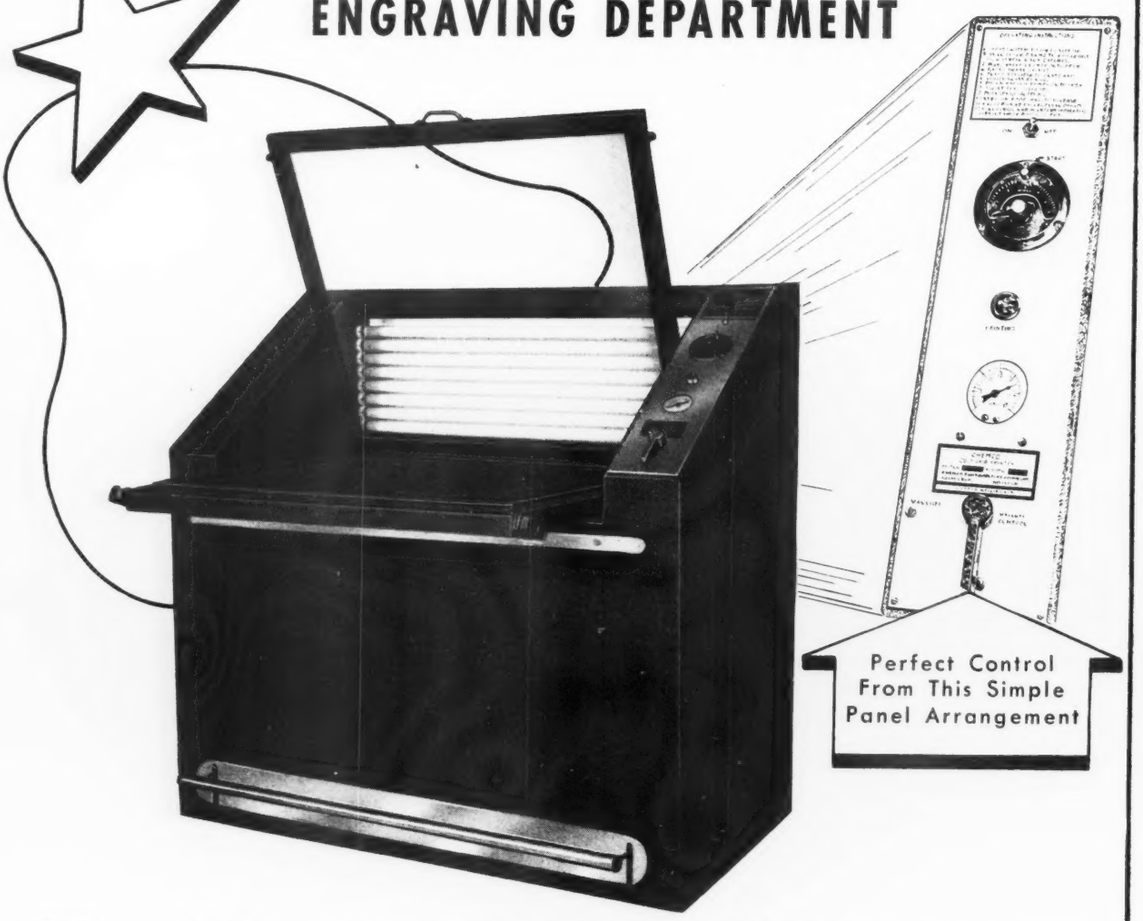
QUALITY Glidden PRODUCTS

FACTUAL INFORMATION ON REQUEST • STOCKS IN PRINCIPAL CITIES

A *NEW* STAR PERFORMER FOR YOUR ENGRAVING DEPARTMENT



The Chemco Cold Grid Printer...

joins the rest of the line of machines which make for high production with minimum effort for the photoengraver.

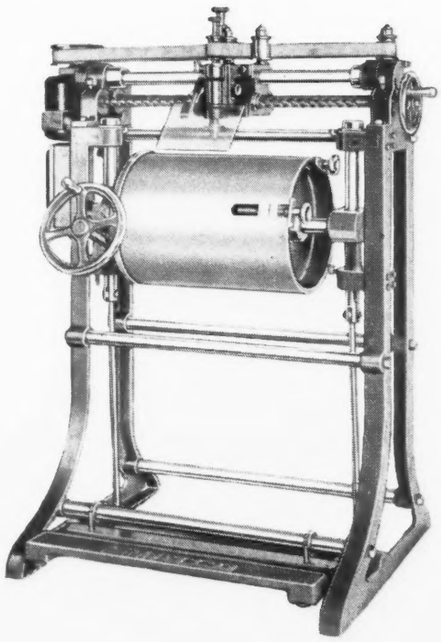
Printing frame and self contained light source, composed of a grid of closely spaced fluorescent tubes specifically made to Chemco specifications, furnish a light source capable of a rapid exposure of the bichromated metal surface. Power consumption of only 800 watts furnish a uniform intensity of light to the entire usable printing surface of 25" x 32".

The extremely low cost of operation, complete lack of fumes, smoke and heat, coupled with uniform printing qualities make this printer the finest of its kind on the market today. Contact your Chemco representative at once.

CHEMCO PHOTOPRODUCTS COMPANY, INC.

Works—Glen Cove, N. Y.—Branches In All Principal Printing Areas

SMATCO ROUTERS



Curved Router

A prerequisite to good color printing is a properly prepared printing plate. This requires routing the curved stereotype plate to secure accurate color and page register. The outstanding value in machine performance for this vital operation is the Smatco Curved Router. Designed and constructed for efficient and reliable service, the Smatco Curved Router is priced within the budget of every Publisher and Printer. Standard models fit all rotary newspaper printing presses. Special sizes are manufactured to order for use with various size rotary magazine presses.

Radial Arm Flat Router

The exact specifications of the stereotype flat casts which go into the form have an important bearing on the typographical appearance of the printed product. The one mechanical operation which contributes most to the quality of the printed illustration is routing the flat plates. The Smatco Radial Arm Flat Router incorporates all the proven engineering principles required of a high speed precision routing tool. The capacity of the plate lockup is from single column to full page flat casts. The Smatco Radial Arm Flat Router is a sturdy and reliable precision machine within the price range of all the Graphic Arts trade.

JOHN GRIFFITHS CO. INC.

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Be certain to see our SMATCO exhibit, Booth 32,
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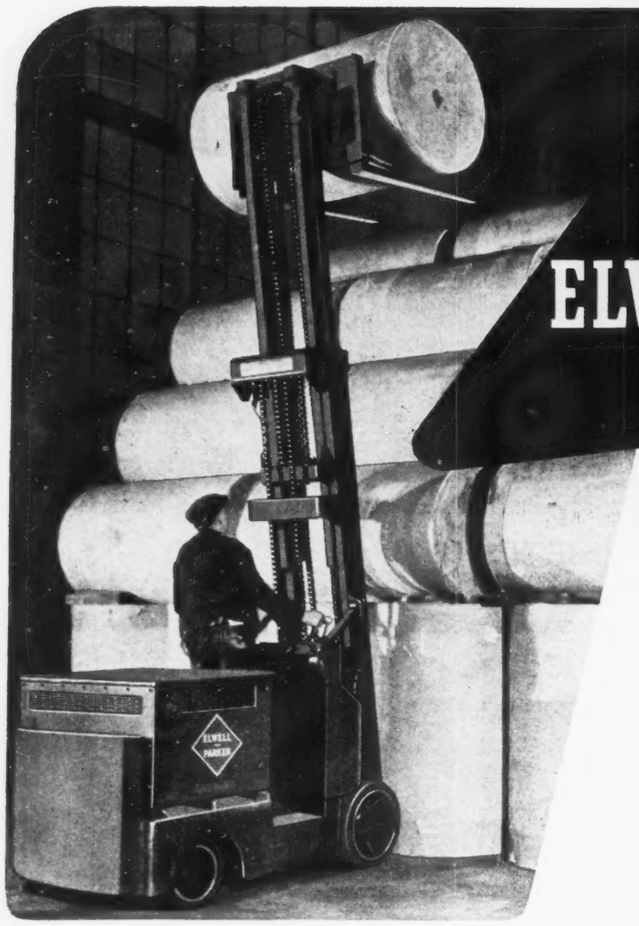

Handle Your Newsprint *on* ELWELL-PARKERS

E-P Low Lift Truck carries signatures in skid loads.

Boxcars can often be emptied in less than an hour with an E-P Roll Handler.

ELWELL-PARKER ELECTRIC POWER TRUCKS WILL—

1. Pick up the biggest rolls your presses can handle.
2. Carry them swiftly from boxcar or truck to storage and then to the presses.
3. Protect newsprint from damage due to bumping the roll.
4. Utilize ALL storage space. (Choose rotating apron for horizontal or vertical pick-up or storage, or forks with pallets for vertical storage, or bare forks for horizontal.)
5. Enable the whole job to be done SAFELY by one-man crews.

Remember the efficient flow of blank paper *into* and *through* your plant is essential if newspapers are to pour *out* of your plant with speed and economy...Have an EP man recommend a modern newsprint handling system for you. The Elwell-Parker Electric Co., 4517 St. Clair Ave., Cleveland 14, Ohio.

48 PAGE BOOK shows how to cut paper handling costs. Ask for "Industrial Logistics in Paper".

ELWELL-PARKER

Established 1893

POWER INDUSTRIAL TRUCKS

High? Low? Type High?

NO. 6* HACKER PLATE GAUGE

Depth of throat 6". Measures flat plates up to 12" wide—any length. Bench space 10½" x 14". Shipping weight 80 lbs.

How do you know ... in your shop?

With a Hacker Plate Gauge you can tell in a second the exact height of a plate — under printing pressure. Operation is so simple, anyone can use it. There are no calculations to make. One glance at the large dial indicator gives you the exact height of a plate in thousandths.

The No. 6* Hacker Plate Gauge (illustrated above) may also be used for measuring paper, metal, blocks, cylinder packing, or other materials from .001″ to 1⅛″ thickness. Two larger models, adaptable for measuring not only flat but curved plates, are also available.

*Hacker Gauges sold in the U. S. A. only by Vandercook & Sons, Inc.

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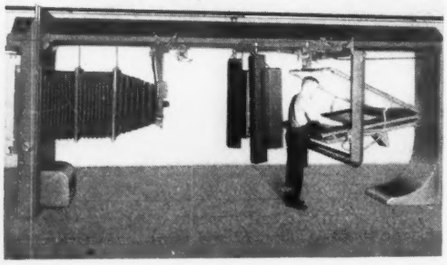
VANDERCOOK & SONS, INC.

General Offices—900 North Kilpatrick Avenue • Chicago 51, Illinois
Chicago Display Room—630 South Dearborn Street
Eastern Branch — 216 East 45th Street, New York 17, New York
Western Branch—1151 South Broadway, Los Angeles 15, California

Are you contemplating

OFFSET OR PHOTO-ENGRAVING PLATE MAKING?

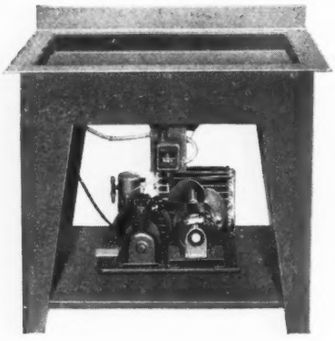


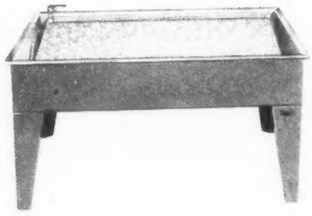
If so, it will pay you to investigate the modern up to date Douthitt Products. Cameras complete, Vacuum Printing Frames, Plate Whirlers, Contact Printers, Temperature Controlled Sinks for processing negatives, Camera and Lens Controls, Silvaloy Silver Bath Holders, Plate Developing Sinks, Ink-Up Tables and Plate Coolers—everything for the Plate Making Department, including chemicals and supplies.

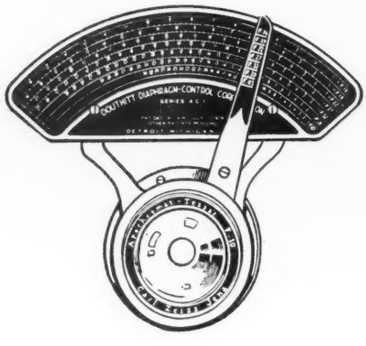
Designers and manufacturers of "Plate Making Equipment" for Lithography, Photo-Engraving, Photo Gravure, Silk Screen process and kindred arts.

We are always striving to make the most efficient and economical products for each individual operation.

Send for our catalog and look over our products before deciding to purchase any other.







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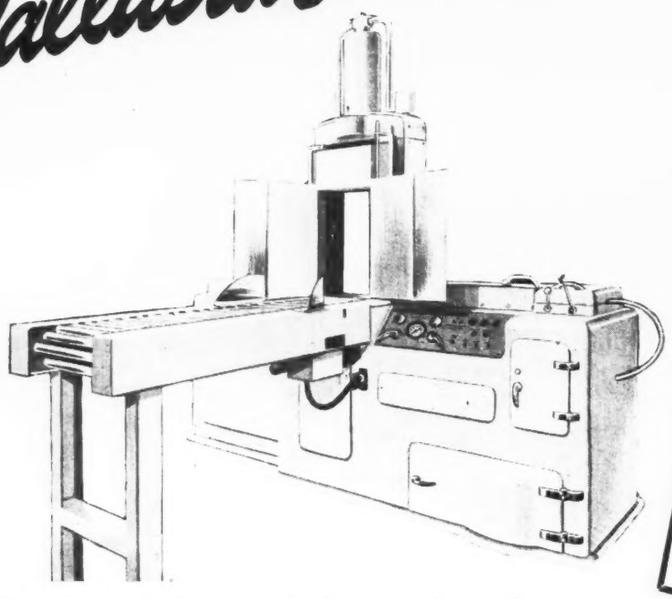
WITH FEEDER



***NOW IN USE**

by the
Standard Gravure Corporation
A Subsidiary
of the
Courier-Journal
and
Louisville Times Company
Louisville, Ky.

The Wallastar Automatic Bundler has been on active service for the past year in the bindery department of the Standard Gravure Corporation, producing for the company a low-cost compact, pilfer-proof mailing bundle that has saved time and money. So successful has been its operation that the second Wallastar Bundler is now on order for delivery.

Top performance in operation of the Wallastar Automatic Bundler in use in other American newspapers is testimony to the seven years of trial on the job in the mailing room of The Toronto Star—no effort or expense has been spared to perfect the finest automatic tying machine possible.

The Wallastar Automatic Bundler is an electrically-controlled, air-operated machine that automatically feeds in, compresses and binds with a welded wire, bundles of newspapers from four to twenty inches high. It is the only tying machine using the unique method of lap welding the wire to fasten it. All bundles are automatically tied squarely and neatly, the feeder does not damage wrapping and may be used for high-grade products.

Write TO-DAY!

Please send me without obligation a copy of the Wallastar booklet entitled: "Automatic Newspaper Bundling"

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Wallastar

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TORONTO STAR LIMITED

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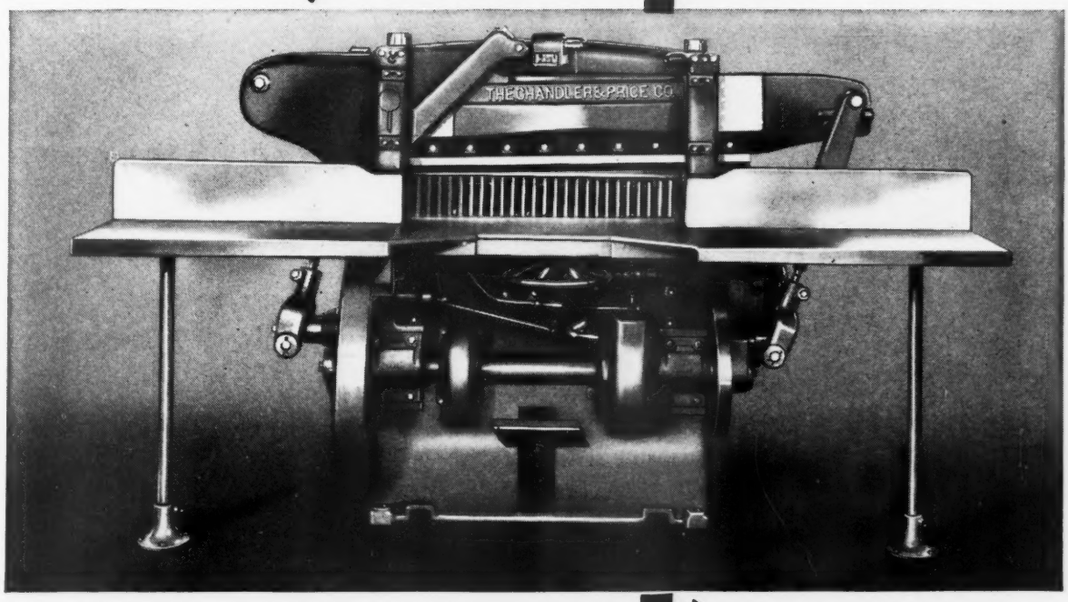
CHANDLER & PRICE

AUTOMATIC CUTTERS

39" 44" 55" *Proved* BY YEARS OF SERVICE

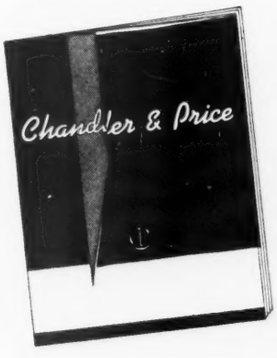


Available for Prompt Delivery

● When you decide upon a C&P Automatic Cutter, you choose a cutter with *proved performance* that will handle your cutting problems for years to come. There is nothing experimental about C&P cutters—thousands of plants—large and small—have time-tested and job-tested these cutters to their complete satisfaction.

CHECK THESE C & P FEATURES BEFORE YOU BUY ANY CUTTER

- ✓ Accurate Cutting
- ✓ Rigid, Unyielding Construction
- ✓ One piece base casting
- ✓ Substantial ribbed cutting table
- ✓ Quick-acting back gauge lock
- ✓ Double shear-cutting knife motion
- ✓ Cutter cannot repeat
- ✓ Bridge-truss knife bar
- ✓ All controls within easy reach
- ✓ Readily accessible binder adjustment
- ✓ Multiple disc clutch
- ✓ Sliding panel in knife slot keeps out trimmings
- ✓ Three part back gauge
- ✓ Easy, convenient knife adjustment
- ✓ "One shot" lubrication if desired
- ✓ Self-adjusting brake
- ✓ Motor mounted below cutting table
- ✓ Illuminated tape magnifier
- ✓ A size to fit your needs, 39", 44", 50"
- ✓ Extension tables available for all sizes
- ✓ Proved performance
- ✓ Prompt delivery



Specification sheets and a descriptive booklet fully illustrated will be sent on request. Write us.

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CLEVELAND, OHIO

★ *Manufacturers of Printing Machinery for over 60 Years* ★

1912 ——— 1948

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SERVICE TO THE BEST KNOWN PUBLISHERS

ENGINEERING AND

SELLING CLINE-WESTINGHOUSE EQUIPMENT

Safety, Reliability, Economy has always been our slogan. Cline has pioneered in this field, progressed with scientific development in every branch of the electrical industry. When better newspaper press controls are possible, Cline will furnish them.

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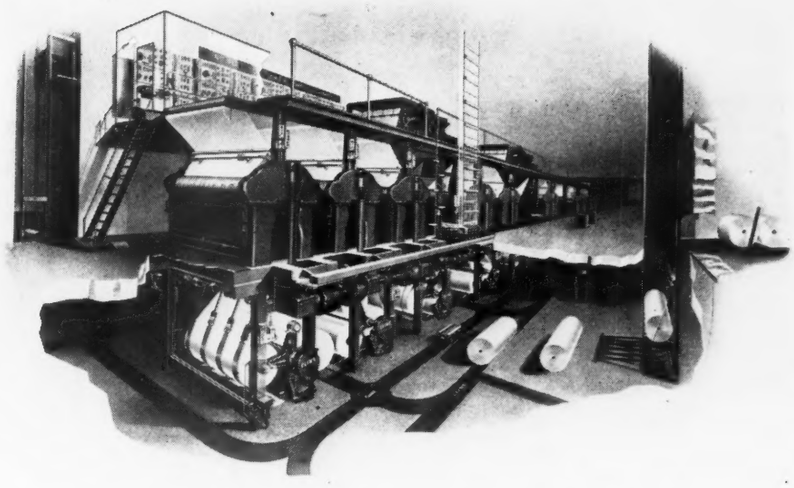
CLINE



Typical Cline-Unit Drive and Power Control Installation

UNIT TYPE PRESS DRIVES... PROVIDE *8 Point Security*

Here are 8 tangible reasons why Cline alternating current, unit type press drives with full automatic push button control are standard equipment in many of the world's best equipped pressrooms.

1. SAFETY AND RELIABILITY—Are assured in design of circuit and arrangement of apparatus, and by the use of substantial Cline-Westinghouse oversize control parts for all circuits.

2. SPEED AND POWER—Cline-Westinghouse equipment is selected for power and speed to meet the demand of the press it operates.

3. NO PRESS DRIVE SHAFT—With the unit type press drive, power is applied directly to the point where it is used. This is the most logical and direct way, and the most efficient.

4. NO BACK LASH—Perfect control of load of each unit motor prevents erratic acceleration or deceleration which might cause a back lash and a subsequent web break.

5. PERFECT ACCELERATION—Positive, smooth control is assured because there is never any more or less power applied to the press than required. Erratic acceleration due to variation in the load is entirely eliminated.

6. PERFECT AUTOMATIC BRAKE—Each motor on each unit is a controlled brake that stops the press in a pre-determined time. This type of drive eliminates the need for cylinder brakes on the press, and insures perfect slow down.

7. MINIMUM POWER USED—Since each motor drives one unit and one folder it is only in use when that part of the press is operating; and because of the omission of the press shaft, the Unit Type of drive uses a minimum of power.

8. *CLINE PATENTED ALTERNATING CURRENT UNIT MOTORS apply power direct to each press unit and folder. With this system, it is not necessary to convert alternating current to direct current.*

For safety, service and satisfaction specify Cline Systems the next time you consider new press equipment.

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Imperial has efficiently served the Graphic Arts Industry exclusively for 36 years—today it is serving over 56% of all daily newspapers—and will continue to serve your plant best with Type Metal and Type Metal Service at the lowest possible cost.

IMPERIAL TYPE METAL CO.

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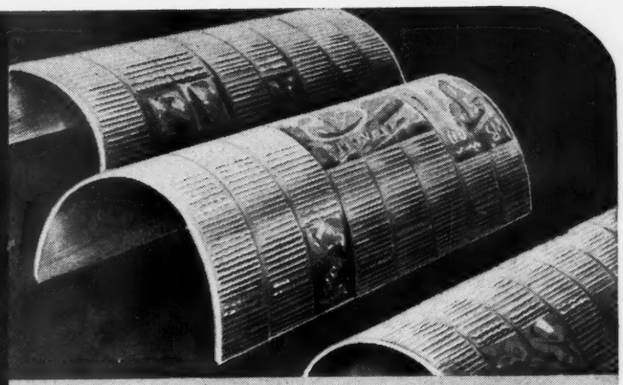
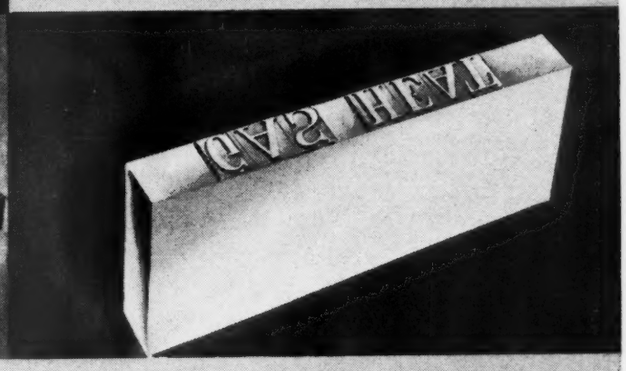
Serving the Graphic Arts Industry Only

FLEXIBLE *GAS*
HEAT SOURCE FOR ALL THE *Graphic Arts*



Behind the headlines of the press of America, GAS makes the news in the stereo rooms of hundreds of newspapers.

Behind the illustrations in the news and trade press, flexible GAS performs several important functions in electrotype production.



This line of machine-set type came from an *Intertype machine* in which delicately controlled flames of GAS kept the type metal at precisely the required temperature.

To speed production in the plants which print the millions of copies of weekly news magazines Gas-fired dryers prevent smudging by drying ink at press speed.

In the bindery, too, GAS keeps the glue pots at the correct temperature, cures cover stocks, provides heat whenever and wherever needed.

And these are just some of the many applications of GAS in the graphic arts—reminders that flexible, clean, controllable GAS has no equal as a heat source. Your local Gas Company Representative will bring you up-to-date on developments.

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MORE AND MORE...
THE TREND IS TO GAS
FOR ALL INDUSTRIAL HEATING

Federated METALS QUIZ

subject: TYPE METAL

Q. What is the effect of throwing "tinfoil" wrappers... from candy or cigarette packages...into a pot of type metal?

A. As little as *1 part in 100,000* of "tinfoil" in molten type metal can be very harmful!

Much of the so-called "tinfoil" is in reality aluminum foil, and as little as eight-tenths of an ounce in 5000 pounds of molten type metal can seriously increase the drossing rate. Aluminum also forms a skin on the metal and is the cause of frosty type faces.

The complete line of Federated type metals—including Electrotype, Linotype, Stereotype, Monotype, Foundry Type, Mor-Tin Replacement Metal, Copper Anodes and Electrotypers' Foil —is laboratory-analyzed at frequent stages of production. Coupled with step-by-step control of melting and alloying, this means that Federated Process* Type Metals are delivered to you with scientifically accurate compositions.

If you want basic, easy-to-read information about type metals for yourself or employees, write for Federated Bulletin No. 7, "Facts About Type Metals." F-GGh

*Reg. U. S. Pat. Off.

Federated METALS

DIVISION OF AMERICAN SMELTING AND REFINING COMPANY
120 BROADWAY NEW YORK 5, N.Y.

Federated first in the non ferrous field FMD

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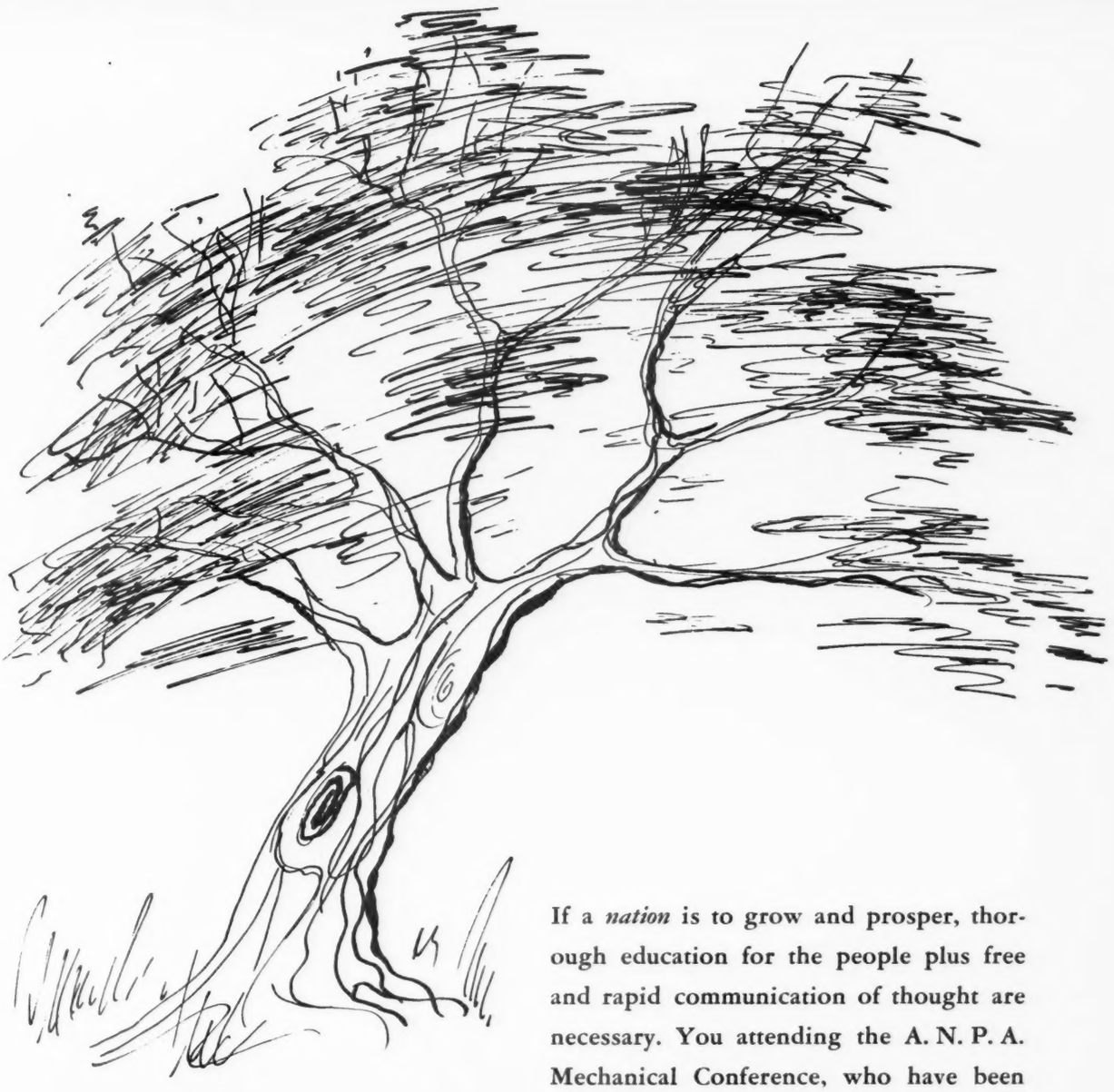

AS THE TWIG IS BENT . . .

If a *nation* is to grow and prosper, thorough education for the people plus free and rapid communication of thought are necessary. You attending the A. N. P. A. Mechanical Conference, who have been instrumental in the spreading of the "word," have played a vital part in the development of this great country.

Burgess will be represented at the Conference to extend to you in person—best wishes and continued success.

BURGESS CELLULOSE COMPANY
Manufacturers of Burgess Chrome and Tone-Tex Mats
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A Laboratory Product
BURGESS
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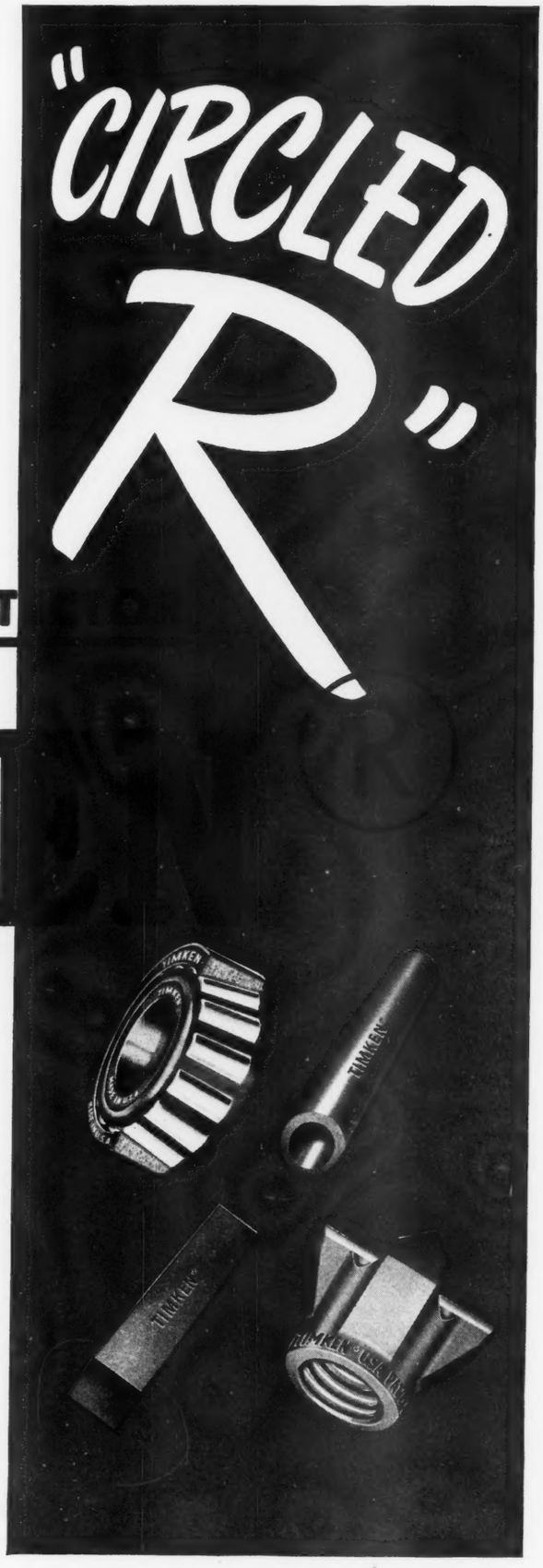
MATS

NOT A BRAND,

BUT A BRAND PROT

TIMKE

"CIRCLED R"



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The trade-mark "TIMKEN" is the buyer's assurance of the finest products in their respective fields. Look for it. The Timken Roller Bearing Company, Canton 6, Ohio.

TIMKEN
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TAPERED ROLLER BEARINGS

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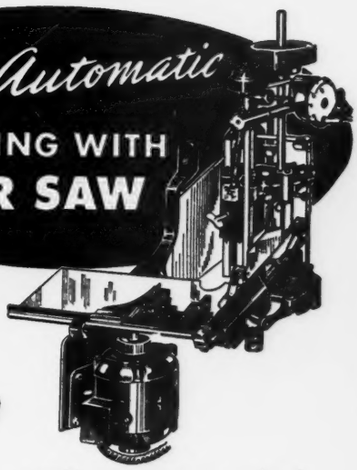
100% Automatic
SLUG SAWING WITH
MOHR SAW



IT'S EASIER
QUICKER
CHEAPER

Use the Mohr Saw for 100% automatic, completely accurate slug sawing. You save time . . . save metal . . . save money. The measure-control dial provides instant precise adjustment of slug length. Slugs are cut to any desired length as they are ejected from the linecasting machine.

Adopt the method favored by shops everywhere for sawing odd-measure machine composition—speed work by using Mohr Saws!

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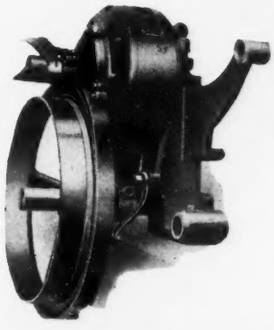
126 N. Union Avenue Chicago 6, Ill.

A name as old as
LINOTYPE
the
CUSHMAN *offset* MOTOR
For Linotype and Intertype



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CHRISTENSEN Machines *are built by Christensen Machine Company at Racine, Wisc.*
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For Cleaner Impressions with Less Wear....

it's TINGUE TRADE MARK PRINTING PRESS BLANKETS

TINGUE DRAWSHEETS

TOP

This drawsheet is firm, durable, economical and long-lived.

IMPROVED SATISFACTION

Coated with "Calvaprene" by du Pont, on a fabric which has been impregnated with "Neoprene".

GOLD TYMPAN CLOTH

An old favorite for flatbed presses. Skivered metallic surface accepts excess ink and flakes it off without smudging.

TINGUE UNDERBLANKETS

CUSHION CORK BLANKETS*

Highly resilient and recommended as the underpacking for "Combino" and Tingue Coated Felt or in combination with Foundation Blanket where a drawsheet is used.

FOUNDATION BLANKET

A firm durable oilproof underpacking laminated by du Pont with "Neoprene" for use in combination with "Cushion Cork" and Tingue Drawsheets or Felt.

TINGUE COATED BLANKETS

TINGUE FELT

Available in your guage and size with synthetic rubber coating.

COMBINO

A synthetic, laminated top blanket, extremely durable and a clean printer.

*Reg. U. S. Pat. Office

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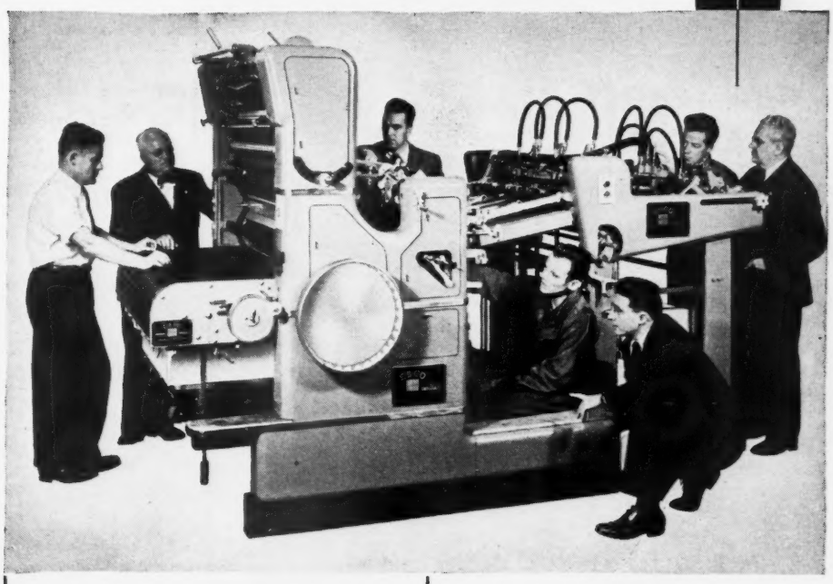
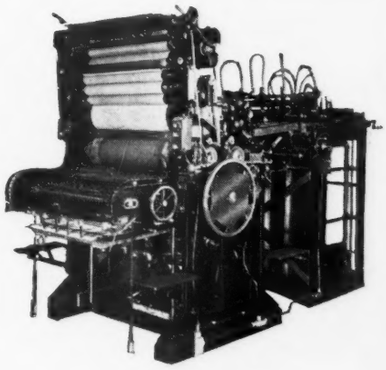
MONTREAL, CANADA

SUCCESS STORY E·B·CO

...with more to come!



The Willard Offset Press originated in Gegenheimer's machine shop in Brooklyn in 1934. The first press was completed in 1935. Prior to the war, four presses were built and installed in commercial shops. After operating steadily for as long



as thirteen years, the first Willard presses still continue to produce profitably for their owners.

E.B.CO Takes The Helm

During World War II the 50-year-old Electric Boat Company purchased the Willard Press. E.B.CO redesigned and streamlined it under Gegenheimer's careful tutelage, and a complete, effective Sales and Service organization was built up.

"REGISTERS WITH LITHOGRAPHERS"

Today E.B.CO Offset Presses are operating in principal cities throughout the world. Lithographers everywhere are attesting to the finer quality and higher production of the Press. Wherever it has been installed, the E.B.CO *"Registers With Lithographers"*.

TO BE CONTINUED...

This is only the beginning of this success story. Electric Boat Company is forging ahead beyond the goals already attained... continuing to be an important supplier of high quality, high production printing machinery.

Write for FREE BOOK

For a complete description of the E.B.CO Offset Press, attach the corner of this ad to your letterhead and mail to one of the addresses below. A copy of the booklet entitled, "Why the Lithographer Must Consider the E.B.CO Willard" will be mailed to you.

E·B·CO

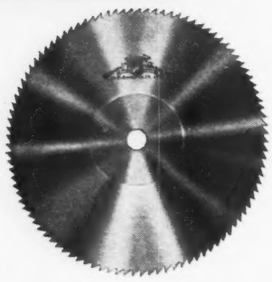
PRINTING MACHINERY DIVISION
ELECTRIC BOAT COMPANY
445 PARK AVENUE, NEW YORK 22, NEW YORK
CHICAGO OFFICE: 400 W. MADISON ST., CHICAGO 6, ILL.

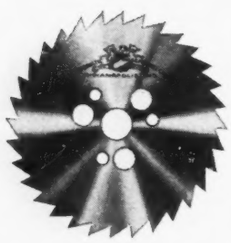
SAWS SHARPENED

TO GIVE

better and longer

SERVICE



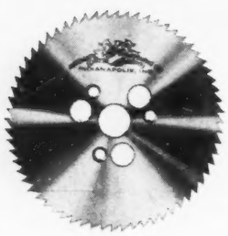


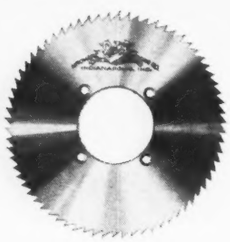
COMPOSING ROOM

Saws, Rouse Band Saws, Linotype and Intertype Back and Side Knives, Ludlow and Elrod Knives.

STEREOTYPE DEPARTMENT

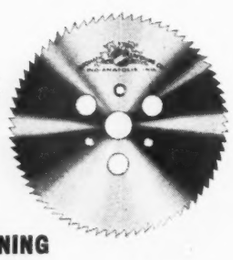
Saws, Shave Knives, Router Bits, Tail Cutters.

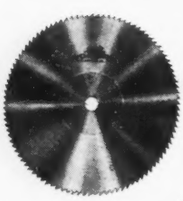




ENGRAVERS AND ELECTROTYPERS

Saws, Planer Knives, Router Bits, Beveling Cutters.





SHARPENING PRICES

Book of 10 Sharpening Coupons $7.00 or 75c per saw (we pay return postage).

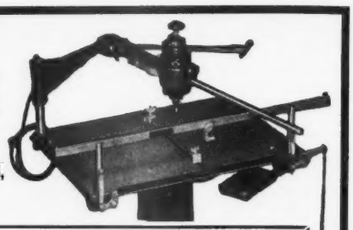
PRICES AND TRADE-IN PLAN

5 & 5½" saws	$4.00	—with old saw traded in	$3.20
6"	$4.50	—with old saw traded in	$3.60
6½ and 7"	$5.50	—with old saw traded in	$4.40
8"	$6.00	—with old saw traded in	$4.80
10"	$7.00	—with old saw traded in	$5.60
Trimmer Knives, each			
Band Saws for Rouse machines			

Agents for: Nelson Cost Cutter, Miller Saw Trimmer, C&G Saw Trimmer, Turner Super Speed Seven.

Automatic Saw Sharpening Co.
741 EAST OHIO ST.
INDIANAPOLIS, INDIANA

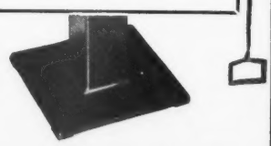
NEW DIXON
HEAVY DUTY ROUTER & TYPE-HIGH PLANER
A Precision Machine for NEWSPAPERS, PRINTERS, ENGRAVERS



SPECIFICATIONS

Motor:—Ball-bearing. 18,00 R.P.M. Continuous duty type. Raises and lowers inside of arm by hand wheel. **Foot-Stirrup:**—Raises front bar cleaning bit from work. **Light Fixture:**—Light located on side of motor. **Switch:**—Located on side of motor. **Arm.**—Heavy, reinforced cast iron. **Bed.**—Size 24½" x 18". **Workholder:**—Locks any size or shape cut. **Weight.**—Pedestal model, 275 lbs. Bench model, 125 lbs. Complete with router bits, light bulb and type-high Planer. Send for further information.

Bench Model **$198** Pedestal Model **$228**

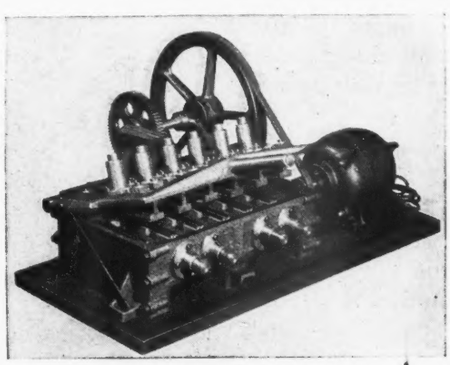


Manufacturers of **DIXON'S MOLD POLISH**
(the polish is black)

A Polish and Lubricant for Linotype, Intertype and Monotype Molds, etc.

Automatic Saw Sharpening Co.
733-41 E. OHIO STREET INDIANAPOLIS, IND.
Sharpeners of Printers' and Stereotypers' Saws

CLEAN and GRAPHITE SPACEBANDS MECHANICALLY!



SOFNAS SPACEBAND CLEANING MACHINE

SOFNAS AUTOMATIC **MOUTHPIECE WIPER**

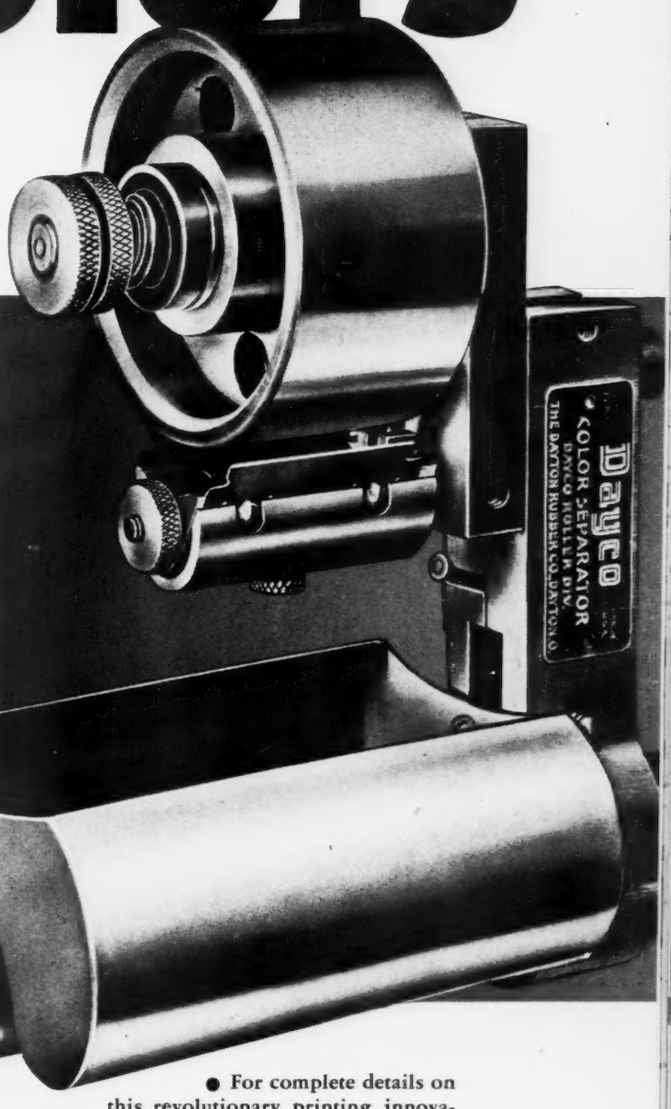
for ALL 30-EM Linotypes

SOFNAS BROS.
45 Hendricks Place **P. O. Box 5227**
Indianapolis 1, Ind.

This insert was printed in

six·colors*

...one time through
a two-color press...
and not a roller cut!



THE WORK OF THE AMAZING NEW

dayco

COLOR SEPARATOR

an exclusive, patented product of Dayton Rubber

- easy to install
- simple to operate
- no roller cutting
- pays for itself
- for all types of rollers
- for all inks

● For complete details on this revolutionary printing innovation, write or call Dayco Roller Division, *Dayton Rubber* • *Dayton, Ohio*

Dayton Rubber

points the way to easier color in printing

...and MORE!

*excluding black

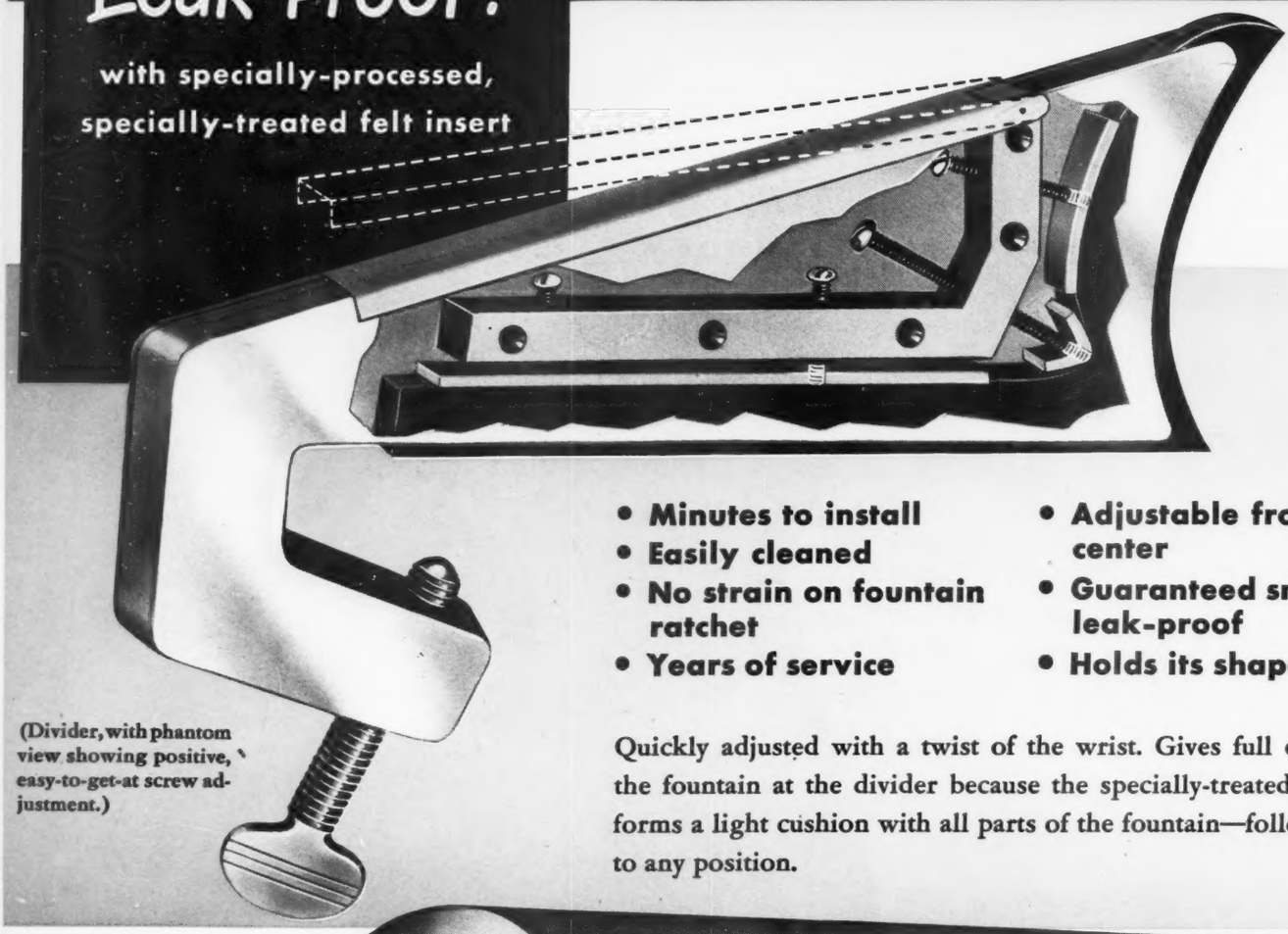
THE AMAZING NEW

dayco

ADJUSTABLE FOUNTAIN DIVIDER

Sure Fit Leak Proof!

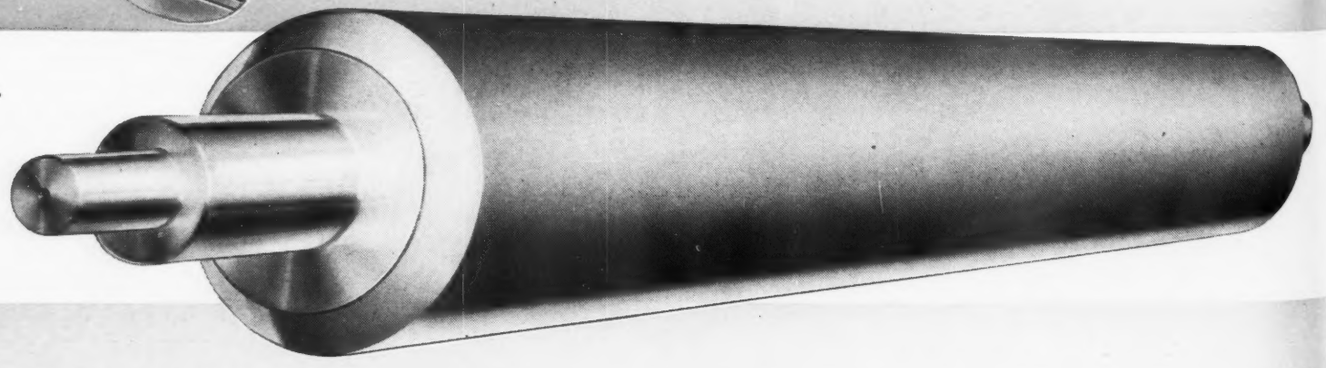
with specially-processed, specially-treated felt insert



(Divider, with phantom view showing positive, easy-to-get-at screw adjustment.)

- Minutes to install
- Easily cleaned
- No strain on fountain ratchet
- Years of service
- Adjustable from center
- Guaranteed snug and leak-proof
- Holds its shape

Quickly adjusted with a twist of the wrist. Gives full control of the fountain at the divider because the specially-treated felt filler forms a light cushion with all parts of the fountain—follows blade to any position.



FOR BETTER USE OF COLOR, for finer and more profitable printing—get the facts on these two great new products, made by the makers of Dayco . . . the original and pioneer synthetic rubber printing and lithographic roller.

To date, the Dayco Adjustable Fountain Divider has been perfected for use on 5 different makes and 51 press models. And more to come! Write or wire: Dayco Roller Division, Dayton Rubber, Dayton, Ohio.

Dayton Rubber

points the way to easier color in printing

The Complete Remelting Installation

DUMPERIN

Big Chief Remelter -- Twintype water-cooled Mold

CUTS MINUTES TO SECONDS

Here you have a time-saving, fuel-saving, money-saving, labor-saving remelt installation far, far in advance of any other equipment for remelting type-metal.

Briefly, as space permits, the truck, riding on roller bearings, loaded with as much as 500 lbs. of slugs or type, is rolled to the Big Chief Remelter; you press a button, the truck moves upward, opens the furnace door, turns over, dumps the load; you press the button again, the door closes, the truck glides down—Time round trip—30 seconds!

The Big Chief loaded, currents of heat automatically temperature-controlled, attack the metal at the bottom, sides and through the body of the mass until completely molten.

NOW—

Flip the switch and an Electric agitator mixes the metal to a homogeneous alloy.

NEXT—

Swing the valve-handle and molten metal flows through a dross-catcher, down the trough into 8 cavities of the Twintype water-cooled mold and quickly freezes to solid—Turn the mold over and 8 clean, Double-ear Slip-off ingots (176 lbs.) slide into cradles as a cool set of cavities await the next pour—Time—2 minutes!

See this installation in action at the ANPA Mechanical Conference July 19, 20, 21, 1948 William Penn Hotel, Pittsburgh, Pa.

UNITED AMERICAN METALS CORP'N

AND AFFILIATED CORPORATIONS

200 Diamond Street, Brooklyn 22, N. Y. 2246 W. Hubbard St., Chicago 12, Ill. 4101 Curtis Avenue, Baltimore 26, Md.
785 Bryant St., San Francisco 7, Cal. 2448 E. 25th St., Los Angeles 11, Cal.

Special

4-COLOR W
OFFSET P

SPECIFICATIONS

Sheet size: approximately 30″ x 40″

Speed: over 8,000 cylinder revolutions per hour

Press consists of four units in tandem, printing 4 colors one side, or 2 colors 2 sides

Adjustable trimmers on both edges of web

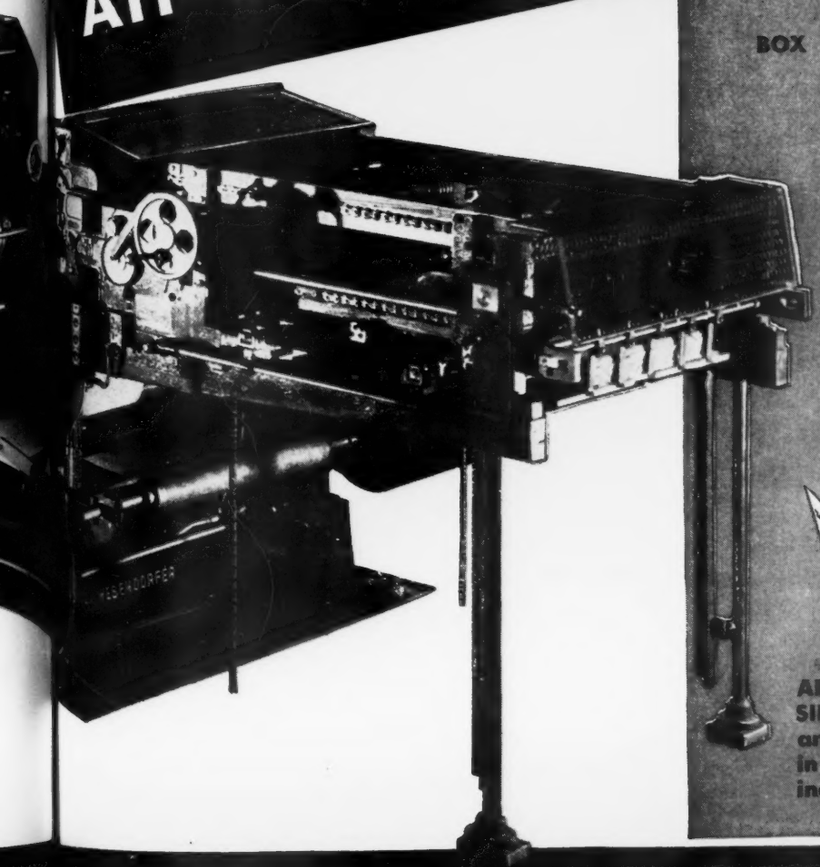
Delivery: flat sheet face up, or re-wound

Plate cylinders are adjustable side-wise and web-wise, thus cutting down makeready time

Automatic lubrication

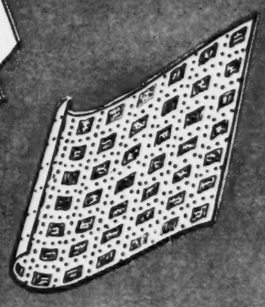
R WEB-FED T PRESS *by*

ATF-WEBENDORFER



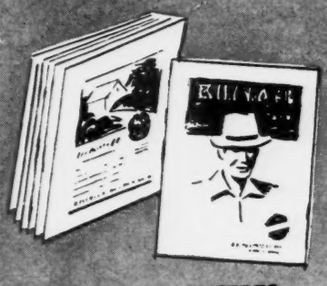
Particularly suited to rapid and economical offset printing of:

BOOK JACKETS

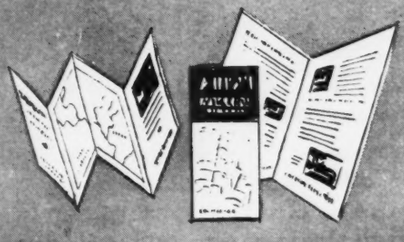


LABELS

BOX WRAPS GIFT WRAPS



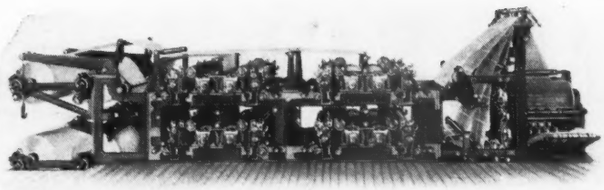
MAGAZINE INSERTS and COVERS



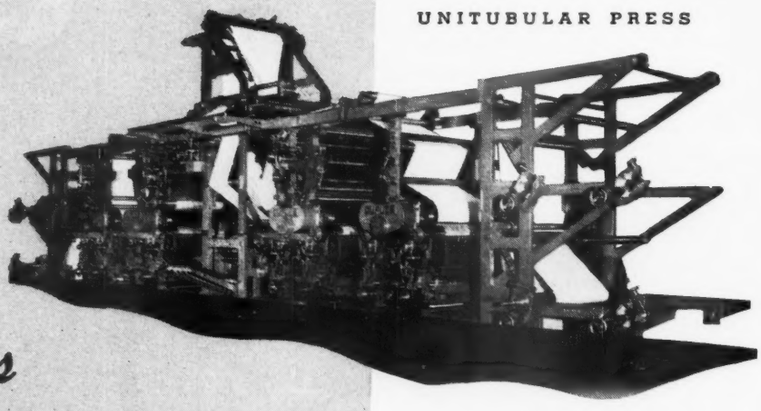
ADVERTISING FOLDERS, BROADSIDES, BOOKLETS, MAPS . . . and any long-run commercial work in colors, within the web and cylinder dimensions.

ATF Associate

STANDARD TUBULAR PRESS



UNITUBULAR PRESS



The Accepted Press for the "IN-BETWEEN" NEWSPAPER

If you are not in the metropolitan daily field but too big for a flat-bed press, then one of these Goss-built *tubular type* presses will give you everything you want —in speed, quality printing, and economy.

Most important of all is their extreme flexibility of page and color combinations to cover almost any situation. And crowding this feature for top consideration are the full accessibility, ease of adjustment, and simplicity of maintenance in a *tubular* press.

Pre-engineered for expansion, more units and extra color facilities can be added to the original installation at any time without interrupting the operation of the press. Ask for comprehensive data on the latest design *tubular* presses.

THE GOSS PRINTING PRESS COMPANY • 1535 South Paulina St., Chicago 8, Illinois

it's **GOSS** *again*

Duplex Division: Battle Creek, Michigan
GOSS PRINTING PRESS CO., LTD., PRESTON, ENGLAND

ECONOMICAL ... DEPENDABLE!

TESTED SUPPLIES THAT BETTER YOUR NEWSPAPER PRINTING PRODUCTION

PLATE-TAK (T.M. Reg. U.S. Pat. Off.) . . . Unequalled for mounting and positioning any type of cut on either wood or metal base. Thinner, faster, cleaner . . . PLATE-TAK is superior on the proof-press, layout table, and for preparing forms for the Stereotype Department. Ends the need for tacks, cements, glues and its extreme thinness prevents bumping effects on half-tone screens.

TRU-MOLD Cork Molding Blanket Perfect density is achieved in TRU-MOLD by compounding with an exact amount of special binder. Proper flexibility minimizes cracking on the edges. TRU-MOLD is available in Medium, Medium-Hard and Hard densities.

FLECTO Gummed Backing Felt The accurately guaged, clean-tearing felt has a special fast-binding adhesive suitable for any make of dry mat, regardless of heat used in scorching. FLECTO conforms to the mat and shrinks with it . . . does not peel, slip, crack or crystallize! The felt is porous to permit easy steam escape, necessary on high shrinkage mats. Perfect bonding prevents separation into layers.

ROYLE ROUTING CUTTERS Made from chromium-tungsten high-speed steel, Royle Red Label High Speed is the highest grade Royle Cutter . . . carefully heat treated and tempered. Available in all styles for stereotype, electrotype and photo-engraving.

NEW!!! FLUORESCENT LIGHTS FOR TYPESETTING MACHINES . . . Gives an efficient, cool light that eliminates eyestrain and minimizes eye-fatigue. Easy to install . . . extremely economical to operate.

- CIRCULAR SAWS IN ALL SIZES
- EASTERN ROUTER BELTS IN ALL SIZES
- STEREOTYPE HAND MITTS
- CURVED AND FLAT CASTING BOARD
- DIRECT PRESSURE MOLDING MATERIALS
- COMPOSING ROOM AND STEREOTYPE EQUIPMENT
- PRESS BLANKETS

PLACE YOUR ORDER NOW FOR THESE AIDS TO YOUR PRINTING PRODUCTION!

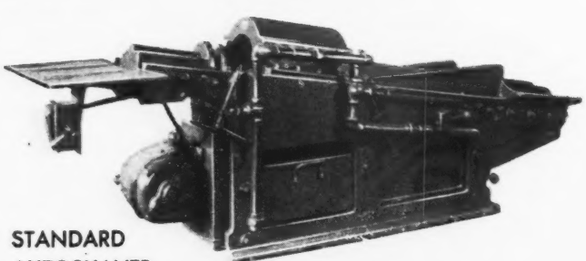
EASTERN NEWSPAPER SUPPLY, INC.
9603 Northern Boulevard, Corona, L. I., New York

OK

AND PRESSROOMS

AND PUBLISHERS!

HEAVY-DUTY
AUTOSHAVER



STANDARD
AUTOSHAVER

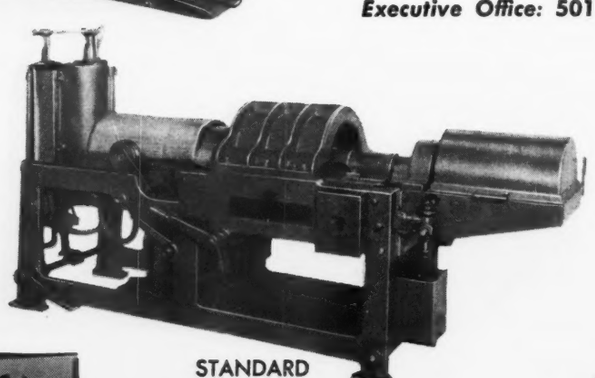
TENSIONPLATE
AUTOSHAVER

It's no recent thing—this unanimous approval of Wood equipment by everyone whose concern is newspaper production.

For many, many years Wood equipment has been accepted by pressroom worker and publisher alike as standard equipment for printing better newspapers—for printing newspapers with economy, efficiency.

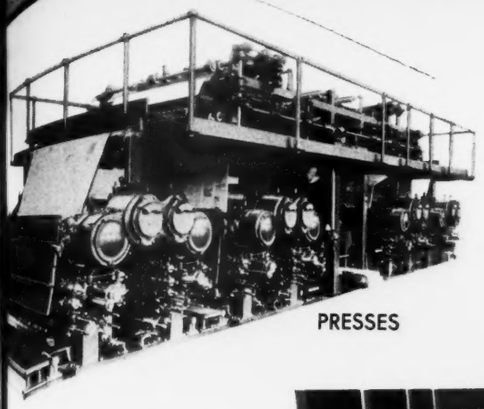
And every new development to come from the Wood shops has shown this same experienced know-how, shown this same down-to-earth knowledge of newspaper conditions IN ACTUAL OPERATION. Take for example, the newest additions to the Wood line. Take Wood Pneumatic Tensions . . . Take Wood PRE-Registering Machine . . . Auto-lifts . . . Automillers . . . Tension-plate Autoshavers . . . Pneumatic pumping systems . . . Well, take any piece of Wood equipment that fills your need. You know if it's WOOD it's GOOD.

WOOD NEWSPAPER MACHINERY CORPORATION
PLAINFIELD, N. J.
Executive Office: 501 Fifth Avenue, New York 17, N. Y.

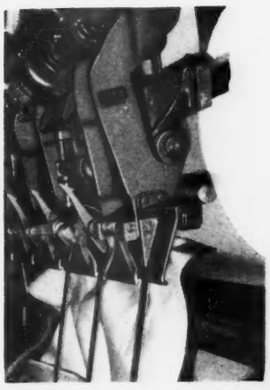


STANDARD
PONY AUTOPLATE

PRE-Registering
AUTOMILLER

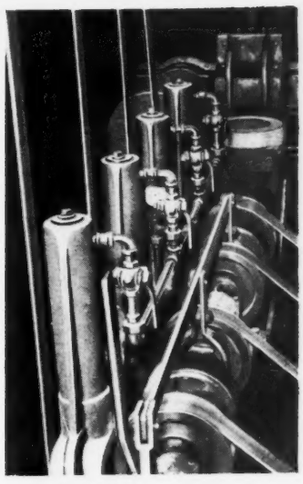


PRESSES

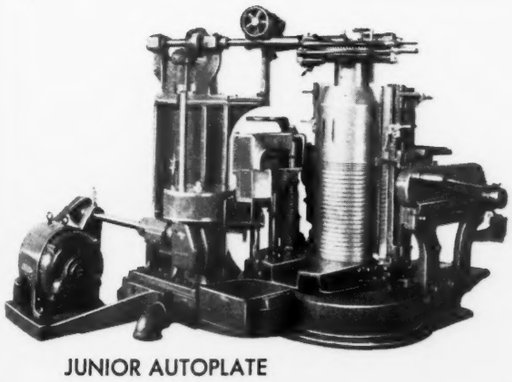


AUTOPASTERS

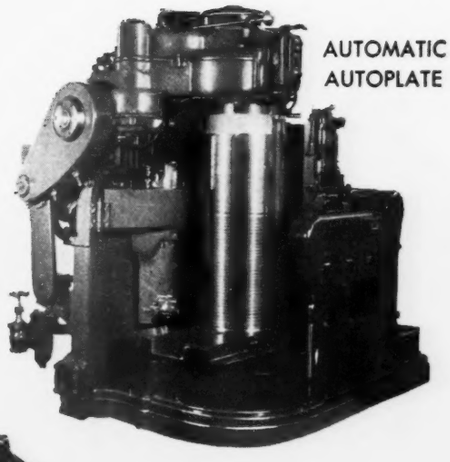
REELS



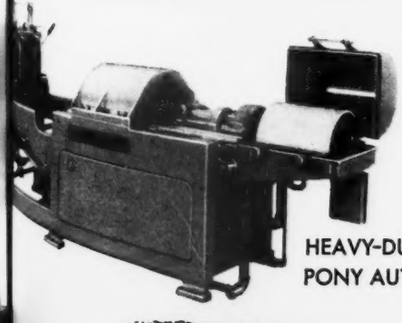
pneumatic TENSIONS
(with fixed or running belts)



JUNIOR AUTOPLATE



AUTOMATIC
AUTOPLATE



HEAVY-DUTY
PONY AUTOPLATE

COLOR PLATE
PRE-Registering
MACHINE

To Print Better Newspapers

IF IT'S Wood IT'S GOOD

Is This Hand in your Composing Room?

The above hand holding a tube of BOOTH'S ZINK CUT CEMENT is found in the most efficient newspaper composing rooms. Superintendents know that with this cement, they can mount cuts and eliminate the risk of their being out of position. It's a reliable, special purpose adhesive that sets up quickly and holds fast. Comes in a tough, ready tube dispenser. Get a supply at once and discover its efficiency yourself.

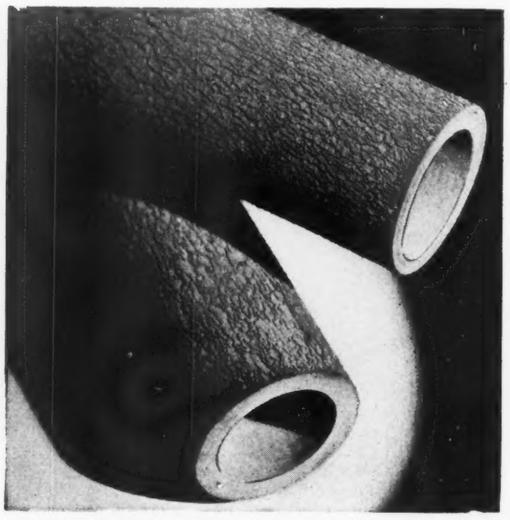
PRICES: In the United States:
75c per tube, $6.00 a dozen tubes
$5.00 a dozen in gross lots.

The illustration below shows the black, rubber rolls that are favorites among line-casting machine operators and machinists. BOOTH'S BLACK RUBBER ROLLS give smooth, sweet-running performance . . . are highly responsive . . . provide maximum cam tread friction . . . resist glazing and maintain an even diameter when installed correctly on keyboard roll shafts. Get these rolls on your machines—but soon.

PRICES: $1.45 per pair.
$7.75 per dozen

E. A. BOOTH RUBBER CO.

MAHONING BANK BUILDING • YOUNGSTOWN, OHIO



WHEN

Fuel costs
Make-overs
Dross losses

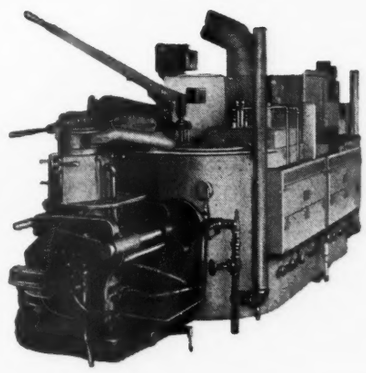
} RUN TOO HIGH

THEN

Cut them all with KEMP Immersion-Fired Melting

You will save on fuel bills whether you are now using gas or electricity. 40% is the normal economy of gas over electricity for the same number of heat units . . . also the normal economy of the Kemp carburetor, burner, and heating method over any other gas-fired system.

You get better casting because the metal is held more accurately to casting temperature. Recovery is quick when new metal is added because the large heating elements are *inside* the metal, not *outside* the pot.



You save metal because you reduce dross. Part of the spent gases from the burner are directed over the surface of the molten metal to keep air away and reduce oxidation. It's as simple as 1-2-3: less air . . . less oxidation . . . less dross!

Over 500 KEMP installations are proving their efficiency now in stereo or electro plants throughout the country. We can tell you where to see one, or we can send you copies of users' records.

THIS POT CUT DROSS LOSSES 18% . . .

for a large eastern daily which operates two stereo rooms in two plants — one with KEMP immersion-gas-fired pots (like the 12-ton unit shown), the other with electrically heated pots. Because the spent products of combustion from a KEMP pot blanket the metal, the stereo room on gas boasts 18% less dross per 10,000 plates (15,500 lbs. per year versus 18,250 lbs.). Here's clear proof of just one of KEMP'S six advantages in stereo and electro work: precise temperature, more production, reduced cost, less work, better work, better working conditions.

KEMP OF BALTIMORE

PRECISION CARBURETION ● ADAPTED COMBUSTION FOR INDUSTRY'S HEAT USING PROCESSES
ATMOSPHERE GENERATION ● ABSORPTIVE DRYER SYSTEMS FOR PROCESS CONTROL AND PROTECTION

JMLcoK-BR2pe

THE C. M. KEMP MFG. CO.
405 E. Oliver St., Baltimore 2, Md.

Send me your Bulletin IE-10 on Stereotype and Electrotype melting .....

We cast ..... plates per day. We'd like to save 40%, too. Get in touch with us .....

NAME .....

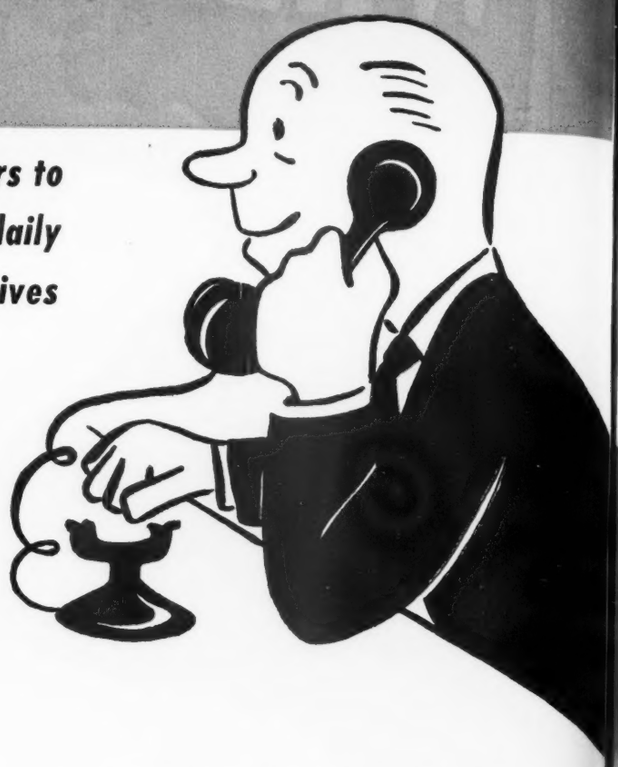
POSITION .....

COMPANY .....

PLACE .....

WE'RE BUILDING ONE FOR THE PHILADELPHIA INQUIRER

Why not a G.E. ELECTRONIC



Here are the facts . . . here are the answers to your questions . . . questions we receive daily about this newest of newspaper press drives

1 WHAT MAKES IT NEW?

Adjustable-speed d-c motors for press drives are operated directly from a-c power converted and controlled by ignitron rectifiers.

2 IS IT SUITABLE FOR MY PRESS?

It is applicable to *any* type of newspaper or rotogravure press. However, it is particularly suitable for large-size metropolitan installations.

3 WILL IT SUPERSEDE THE CONVENTIONAL TYPE OF DRIVE?

Not necessarily. As far as we can determine now, many plants will still find our a-c double-motor drive equipment best suited to their needs.

4 WHAT ARE ITS ADVANTAGES?

a. *Flexibility*—Accommodates any press combination and simplifies drive selection and transfer for these press combinations. Power source is selected automatically as setup is made.

b. *Minimum speed variation with load*—of particular interest to rotogravure operators. A unique electronic circuit provides practically constant speed for all values of torque, therefore, once a speed is set it will hold irrespective of load changes.

c. *Reduced power loss*—no power is wasted in secondary resistor heat. There is no longer a penalty for operating below geared speed down to one-half speed.

d. *First real stepless speed control*—speed steps between threading and maximum are practically infinite in number. Acceleration and deceleration are accomplished by current control to provide smooth, continuous press operation.

e. *Simplified drive installation*—the same motor is used for threading, jogging and running. No longer is it necessary to maintain and install slow-motion motors, overrunning clutches or drive brakes.

f. *Simplified control installation.* This metal-clad factory-wired control lends itself to modern layouts and load-center adaption. No speed-regulating resistors or extra control-ventilating equipment required.

5 IS IT EASY TO OPERATE AND SERVICE?

Very. The press is operated through conventional push-button stations and except for noticeably smoother performance, the pressman will scarcely realize he is running an entirely new system.

6 HOW ABOUT MAINTENANCE?

Maintenance personnel can easily and quickly be trained to service electronic equipment. The only moving part is the motor rotor. All the rest of the equipment is static.

7 ARE ANY OF THESE DRIVES IN OPERATION?

This is a postwar development for the printing industry. However, all phases of the application have been tried and proved in many other industries. Several progressive publishers have already placed orders. Take a tip from them, and before you select another drive, evaluate the savings in operation, installation, and maintenance costs offered by the electronic drive.

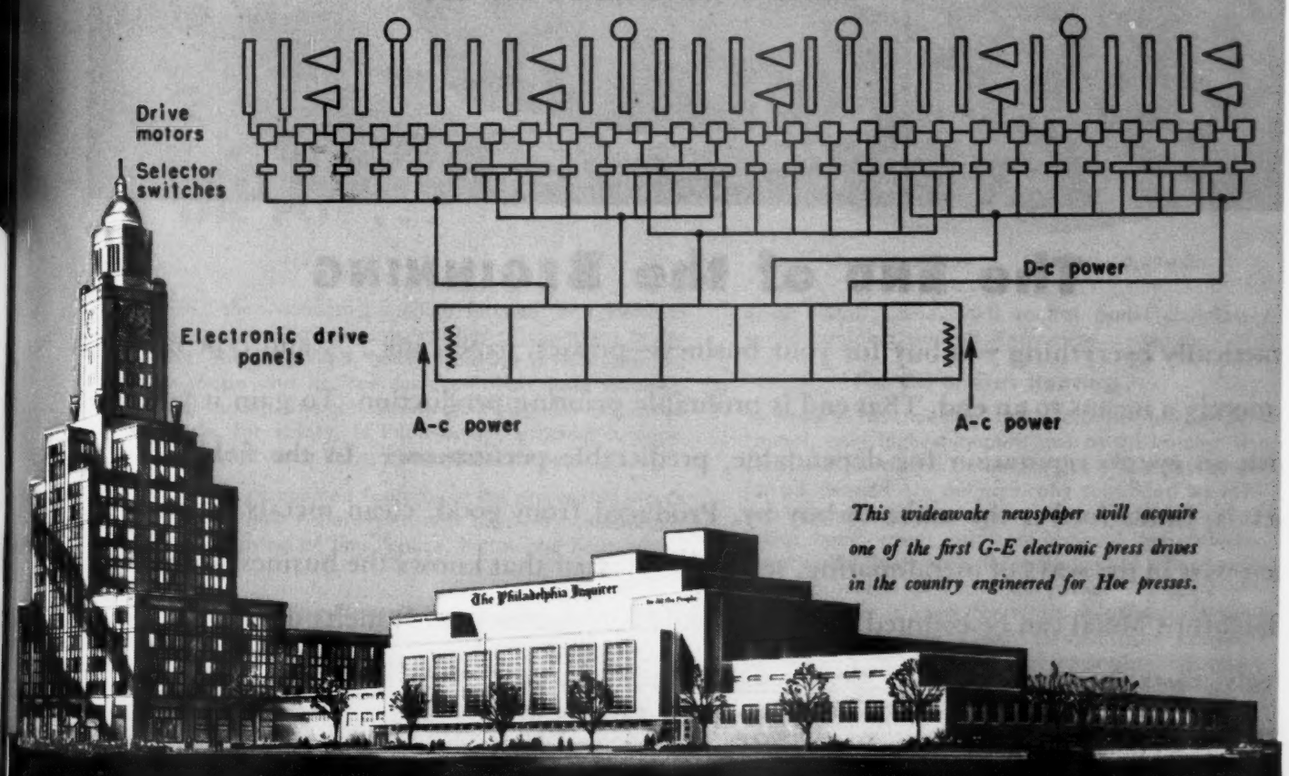
PRESS DRIVE FOR YOUR PLANT?

Just remember these facts about the electronic drive—by means of ignitron rectifiers, a-c power is converted to drive adjustable-speed d-c motors for operating the press. The control and rectifiers are housed in metal-clad, dead-front, cubicle-type cabinets. All equipment is compact, neat, out-of-the-way. Standard accessories are used—push-button stations, web breakers, etc.

The drive has been designed by engineers long familiar with newspaper-press requirements—men whose job it is to help you obtain the best type of drive for your press. These men, or our printing specialists located near you, will be glad to give you more information about our equipment. Simply write or phone our nearest office.

Apparatus Department, General Electric Company, Schenectady 5, New York.

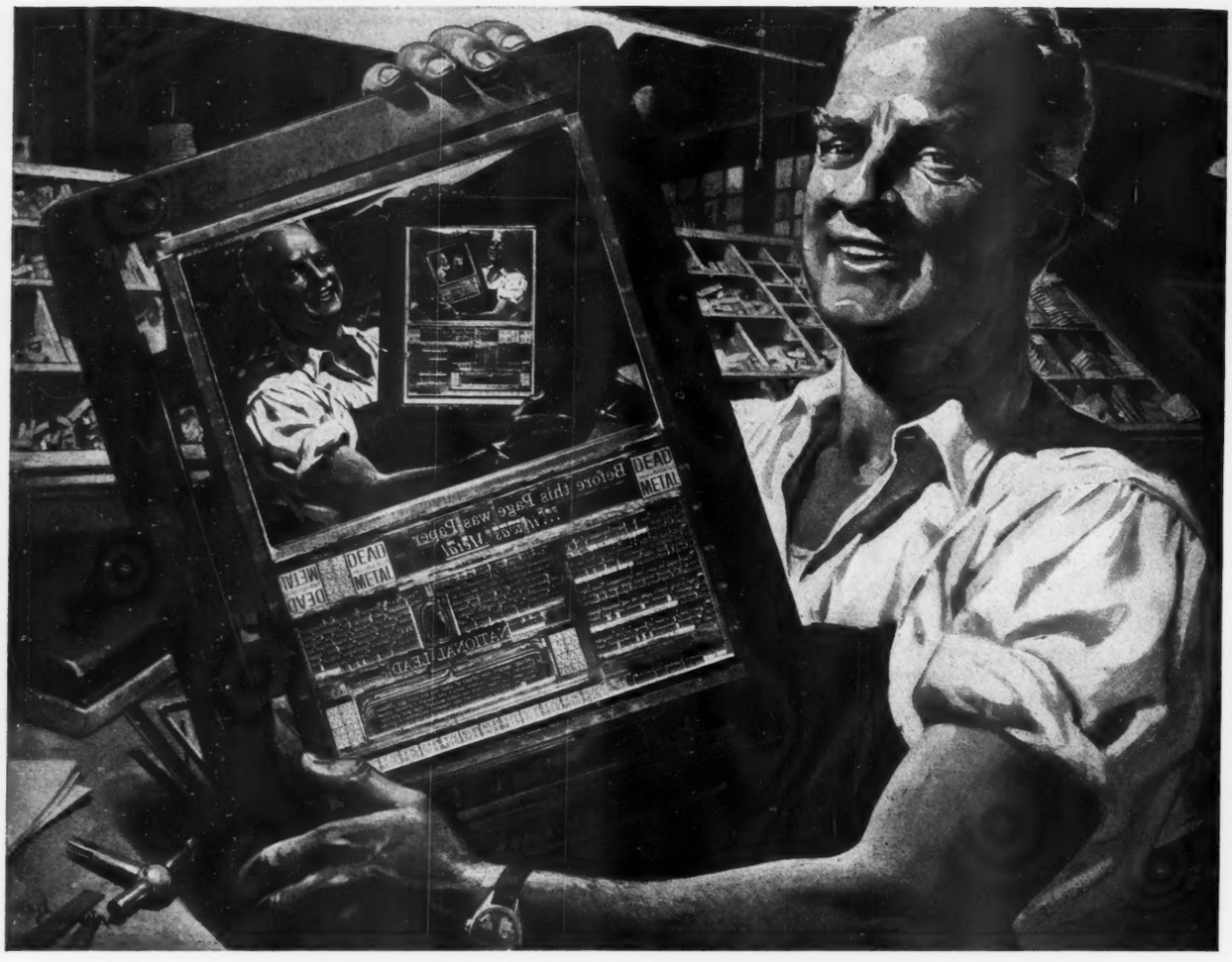
SCHEMATIC ARRANGEMENT OF THE NEW G-E ELECTRONIC-DRIVE SYSTEM FOR THE PHILADELPHIA INQUIRER



This wideawake newspaper will acquire one of the first G-E electronic press drives in the country engineered for Hoe presses.

EVERYTHING ELECTRIC FOR THE PRINTING INDUSTRY

GENERAL ELECTRIC



The End of the Beginning

Practically everything you buy for your business—presses, paper, ink . . . and type metal—is merely a means to an end. That end is profitable printing production. To gain it you buy with an eye to reputation for dependable, predictable performance. In the field of type metals, Blatchford is the name to buy by. Produced from good, clean metals, alloyed by men wise in the ways of metal-mating, serviced by a staff that knows the business inside out, Blatchford Metal can be counted on to do a truly cooperative job. It melts uniformly, flows freely, casts sharply and prints clearly. Dross losses are *low*. Buy Blatchford and you buy dependable results.

NATIONAL LEAD COMPANY
BALTIMORE • CHICAGO • CINCINNATI • ST. LOUIS
NATIONAL LEAD CO. OF MASS., BOSTON
AMERICAN LEAD CORP., INDIANAPOLIS
E. W. BLATCHFORD CO., NEW YORK
ATLANTA: GEORGIA LEAD WORKS (Div. of Cincinnati Branch)
MORRIS P. KIRK & SON, INC., LOS ANGELES

Blatchford METAL

LOOK!

Nothing to interfere in the melting chamber!

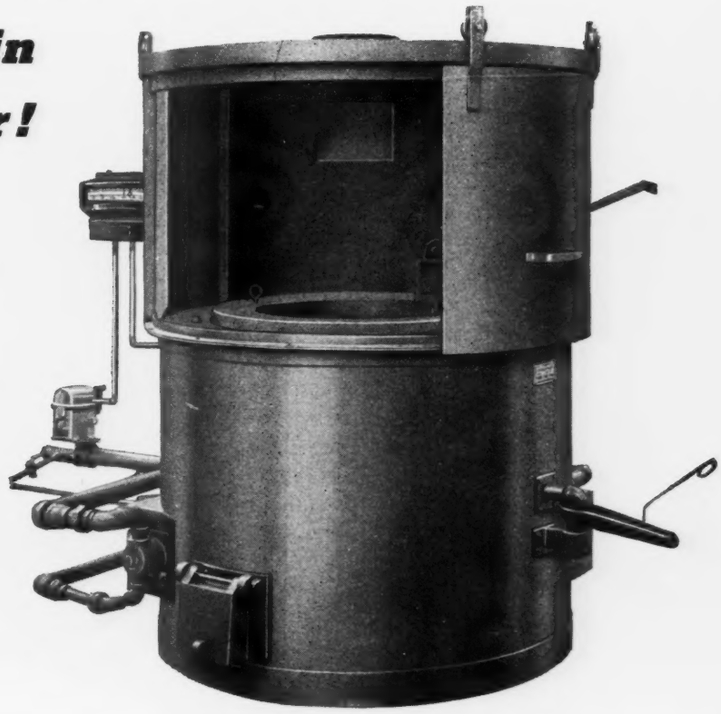
THE NEW

Fisher

(MONARCH)

TYPEMETAL REMELTER

NO HEATING ELEMENTS IN THE POT . . .



Gas • Oil • Electric - 1,000 to 10,000 lbs.

The Fisher-Monarch remelting furnace for typemetal has no heating elements, muffles or chambers in the pot. The long-lived, heavy iron pot is hemispherical in shape and its free surfaces allow easy cleaning and fluxing. The self closing pouring valve is located inside, for safety, in this modern, efficient furnace, and the six-inch lining prevents heat loss.

The many combined features of the pre-war Monarch and the new Fisher—and now made by Lindberg—assure saving of time, space, metal and heat.

For Electric Heating . . .

Nickel-chromium heating elements are located between furnace wall and pot. There are no immersion heaters to interfere with charging, fluxing and skimming metal. Comes with control panel completely wired including millivolt meter-type pyrometer.

For Oil or Gas Heating . . .

To assure fast melting and accurate temperature control, only highest quality gas or oil burners are used, with nozzle mix burner for gas or 2-stage burner for oil. Burners are automatically controlled by millivolt meter-type pyrometer and an efficient ventilating hood meets all fume-removal requirements. Safety pilot lights—which can be ignited with a match—are provided on each main burner. A small centrifugal blower is used for rapid heating and more efficient combustion. Often omitted from remelters costing more, this is the heart of the combustion system. Shipments can be made promptly. Write for bulletin No. 101A, with quotations.

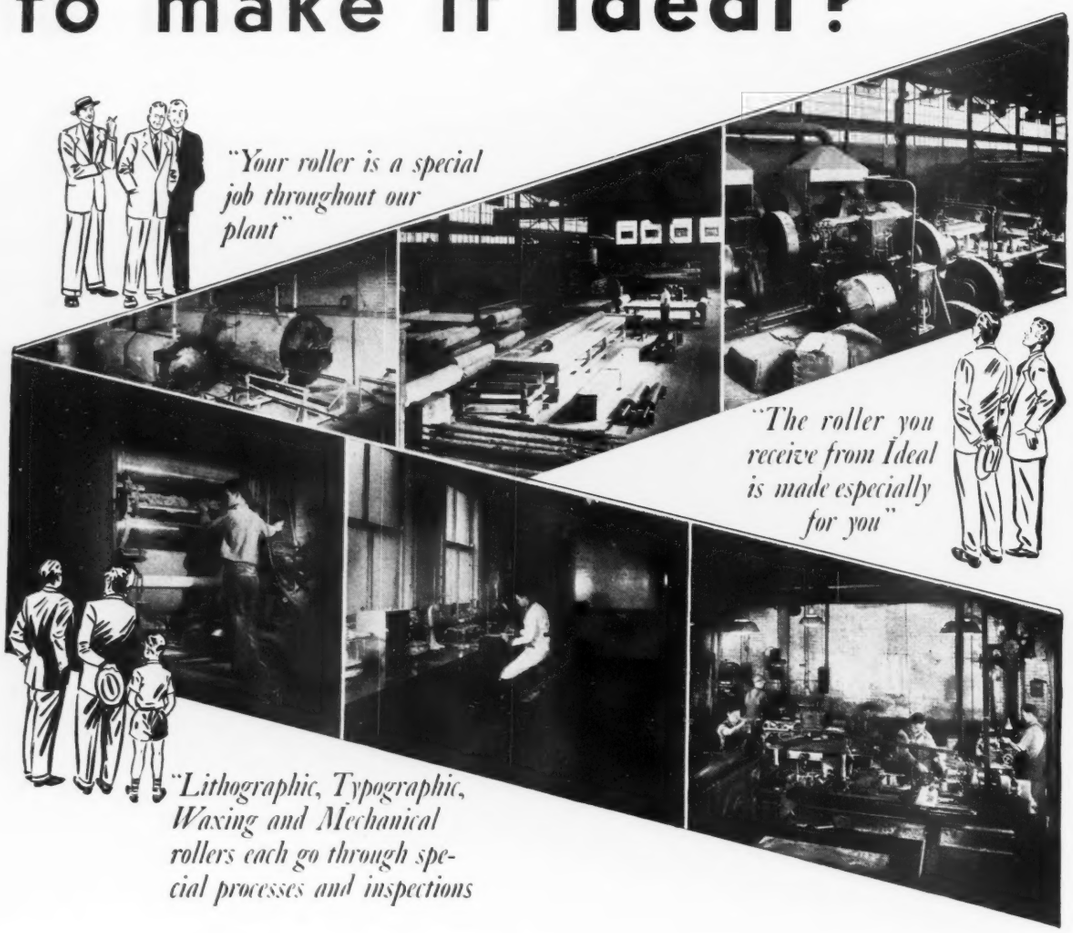
Now . . . a complete line of melting furnaces—gas, oil, electric

Fisher Furnaces

A DIVISION OF LINDBERG ENGINEERING CO.

2468 WEST HUBBARD STREET • CHICAGO 12, ILLINOIS

What happens to a roller to make it **Ideal?**


"Your roller is a special job throughout our plant"
"The roller you receive from Ideal is made especially for you"
"Lithographic, Typographic, Waxing and Mechanical rollers each go through special processes and inspections

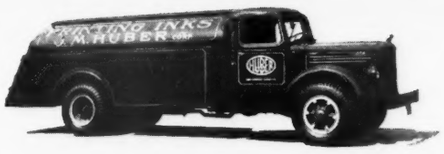
Ideal ROLLERS

Custom built for your individual requirements

You have perfected in your own plant, processes and methods that produce the type of work you want to sell. We can help you do it efficiently and economically by supplying you with the best possible rollers for your purpose. Take advantage of this special service now.

IDEAL ROLLER & MANUFACTURING CO.

2512 West 24th Street, Chicago 8 • 21-24 Thirty Ninth Ave., Long Island City 1, N. Y.



TWO...

THREE!

A 3-color ink pipeline to your pressroom

The rapidly growing use of color in newspaper and publication printing posed the problem of how to provide a continuous flow of color inks to the pressroom. Drums were often exposed to dust and dirt in transit or on the pressroom floor. Clingage meant waste. Pressrooms were cluttered. Large storage facilities were required to be sure of having color inks on hand at all times.

Tank installations solved a similar problem with black ink. Could some method be worked out to deliver color inks—different colors at the same time?

Huber engineers went to work in cooperation with a leading printer, and the result was the first installation of a Multi-Color Tank-Truck Service. Now, in a single tank truck, yellow, red and blue inks are virtually piped from the Huber plant to the ink fountains on the presses.

The development of a Multi-Color Tank-Truck Service is only one example of a Huber solution of an ink problem. As a leading manufacturer of inks, clay, and carbon black, Huber's Technical Staff brings to an ink problem an unusual fund of related knowledge and experience. It's yours to put to work.

THE J. M. HUBER CORPORATION, New York 17, New York

HUBER PRODUCTS HUBER IN USE SINCE *1780*

Why BEVERIDGE DRY MATS

are growing in

POPULARITY

And it is true they are growing in popularity. More stereotypers than ever before are swinging to BEVERIDGE DRY MATS because they are made exactly the way stereotypers want them made. Not only that but with our new machinery and increased facilities, BEVERIDGE can assure prompt service on all grades of mats.

FOR YOUR SELECTION

Beveridge Hi-Speed Mats
for curved newspaper work

Beveridge X-Quality Mats
for high shrinkage

Beveridge Multi-Cast Mats
for autoplate equipment

Beveridge Special Multi-Cast Mats
for exceptional durability and release

Beveridge Hi-Cushion Mats
for commercial flat work

Manufactured and distributed by
THE BEVERIDGE PAPER COMPANY

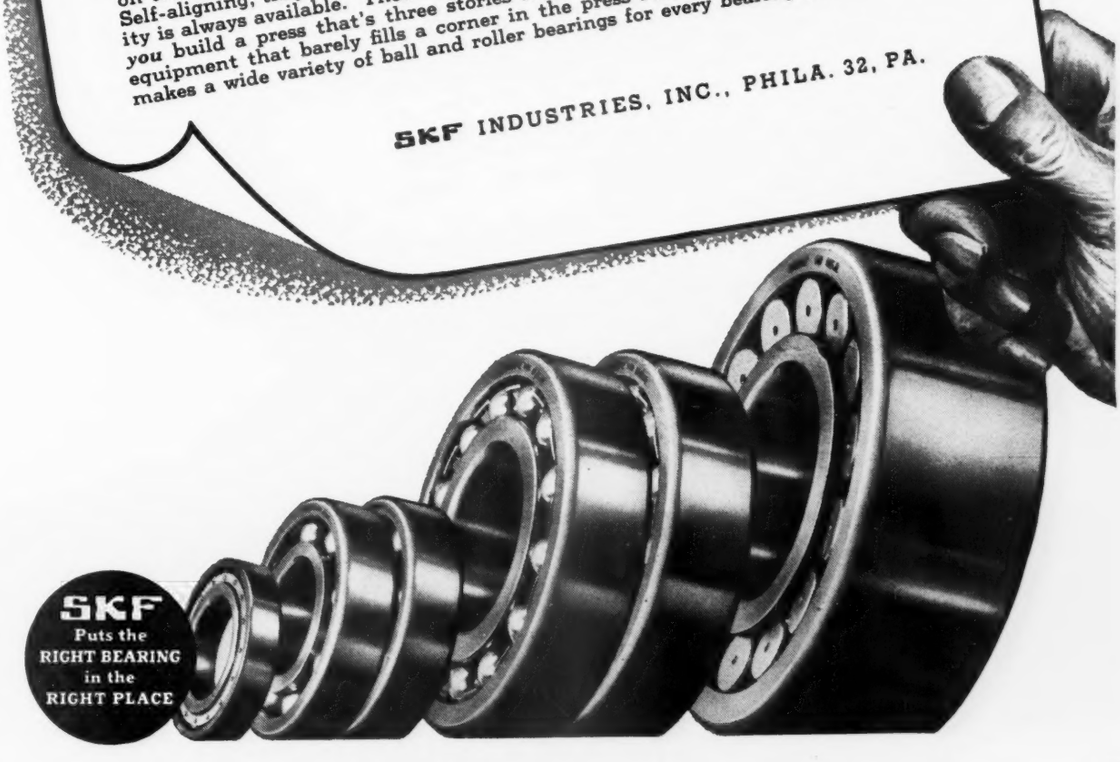
New Products Division
705 W. Washington St.
Indianapolis 4, Indiana

• *Built by* CHARLES ROSS & SON CO.

ON LITTLE JOBS, TOO

Not all SKF locations in the printing industry are on giant magazine and newspaper presses. Many of them are on the vital moving parts of Conveyors, Shavers, Matrix Rollers, Gluers, etc. For example: SKF Spherical Roller Bearings are used *where dependable performance counts* on this Ink Grinding Machine. They're on the roll-necks for sustained accuracy, and heavy load-carrying at high speeds. Self-aligning, they do not bind when the shaft is deflected, and their high capacity is always available. Their maintenance costs are low. So no matter whether *you* build a press that's three stories high and a block long or small auxiliary equipment that barely fills a corner in the press room, remember this: SKF makes a wide variety of ball and roller bearings for every bearing purpose. 6473

SKF INDUSTRIES, INC., PHILA. 32, PA.



SKF
Puts the
RIGHT BEARING
in the
RIGHT PLACE

Mercury newspaper rollers

In developing these rollers, our technicians have *improved* on nature! The synthetic rubber coatings used on Mercury newspaper rollers offer all the advantages of natural rubber—plus higher resistance to abrasion and to swelling caused by ink absorption. You will find that Mercury synthetic coatings last longer, keep their shape better, and are a finer inking medium. We can, however, provide natural rubber rollers as well in the finest quality, for those who desire them.

GETTING BETTER AND BETTER ALL THE TIME

In the 13 years since Imperial Zinc was introduced to the engraving trade, there has been one continual parade of improvements. Outstanding features such as Redibak and Rediface have been announced with fanfare, but many factors making for continual improvement in Imperial Zinc brought about by laboratory research, put into practice by new methods and new machinery, have never been announced. Yet, Imperial Zinc is continually being improved. It is best today—will be better tomorrow. Standardize on Imperial Zinc in your shop and take advantage of Imperial's aggressive quality improvement program.

IMPERIAL TYPE METAL CO.

Philadelphia 34 New York 7 Chicago 50

Imperial ZINC

Serving the Graphic Arts Industry Only

17 More Units!

...To speed mailroom production for these newspapers

NORFOLK NEWSPAPERS .....one unit.

SEATTLE POST INTELLIGENCER ..two units.

CLEVELAND PRESS .....three units.

OKLAHOMAN TIMES.....two units.

BUFFALO COURIER EXPRESS ....three units.

PORTLAND OREGONIAN .....two units.

THE MIAMI HERALD .....three units.

THE INDIANAPOLIS STAR.....one unit.

These papers have placed orders with us for The Milwaukee Journal Feed and Control Mechanism (PUSHERS) as shown above. With these Pushers we'll install the Jampol Feeder and Bundle Conveyors for delivering loose stacks of newspapers to the wire tying machine and the tied bundles to the loading platform.

This unit receives loose stacks of newspapers placed on the conveyor by a mailer. It conveys, automatically ties the loose stacks of newspapers with top and bottom wrapper at a rate of 22-24 single tied or 10-12 double tied bundles per minute . . . then automatically ejects the finished bundles for routing to the delivery trucks.

Investigate the possibilities of such a unit in your plant. Write us for more complete information. We are the exclusive selling agents for Pushers to the newspaper and printing industry.

the **JAMPOL**
COMPANY, INC.
GENERAL OFFICES AND FACTORY:
728-742 61st St., Brooklyn 20, N. Y.
CANADIAN FACTORY: Sherbrooke, Quebec

OUR ENGINEERS HAVE HAD OVER 25 YEARS' EXPERIENCE IN THE NEWSPAPER FIELD

"You don't have to
NAME THE MAT"

The conference speaker smiled at the courteous interruption . . . He had been telling how his production costs had been kept down during the war and after by such simple measures as sticking to one mat—a mat that had kept up quality under adverse conditions, had given them easy molding, cool casting and trouble-free operation . . . Quite a number of hearers grinned. They knew the mat.

CERTIFIED DRY MAT CORPORATION

9 Rockefeller Plaza Dept. M New York 20, N. Y.

For dependable Stereotyping rely on Certified Mats

Certified
DRY MATS

ANNOUNCING

AN EVOLUTION IN PRINTING

Since the beginning all methods of printing required pressure between the inked form and materials printed upon.

NOW better reproductions are deposited on materials without pressure by electric lines of force released from the bondage of conductors.

Here is a new beginning for recording the printed word and picture needed for reading and reference.

Here is the new start with new end results, better service, better quality and lower costs.

Introducing new industries and new employment for newly trained workers.

Conservative policies will introduce the new art and equipment gradually, for all branches of the Graphic Arts.

Performance is made possible by the U. S. Patent System, augmenting free enterprise in a practical Democracy.

Huebner Laboratories, New York, N. Y.

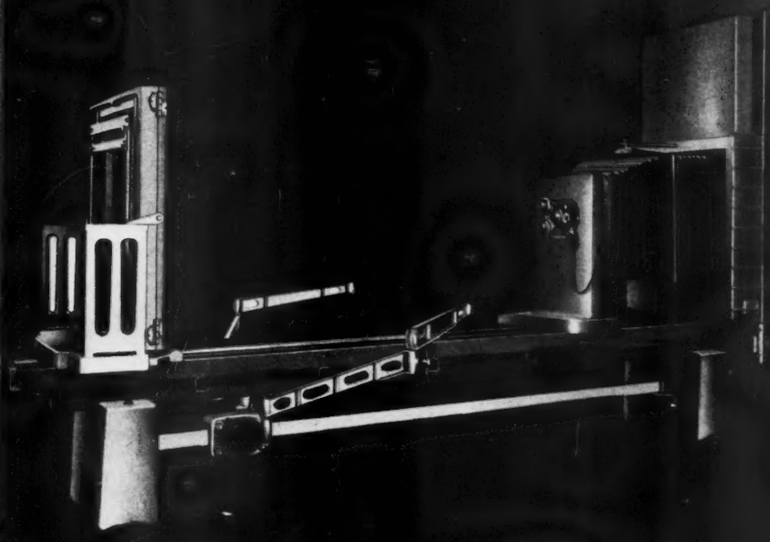
icked by the leaders

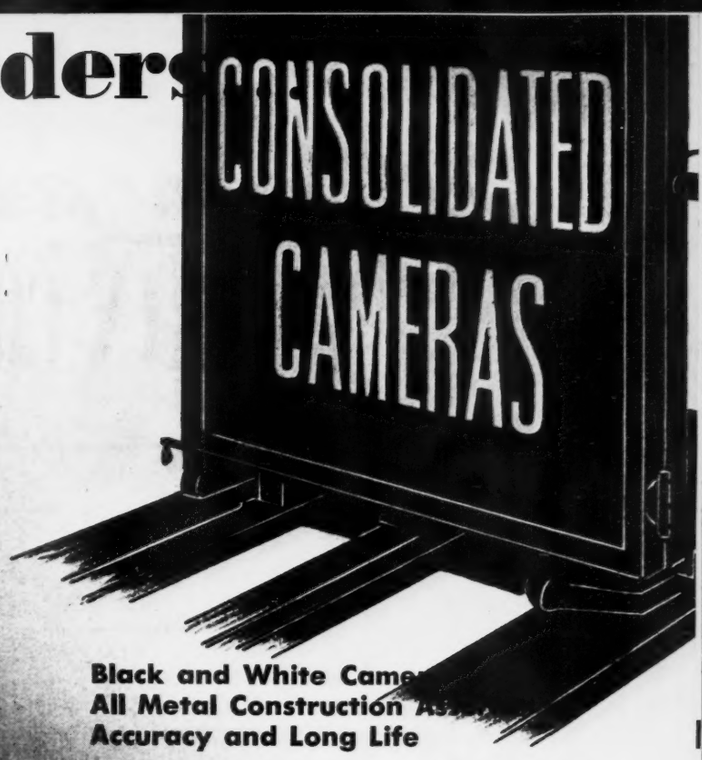
hree Leading National Newspapers* ave Purchased Consolidated Cameras r Color and Black and White

...element is of prime importance in producing ...work, a camera that will maintain ...reproduction while permitting an increase in pro- ...the engraving department of any

...it is significant that three ...have purchased Consoli- ...to get better work

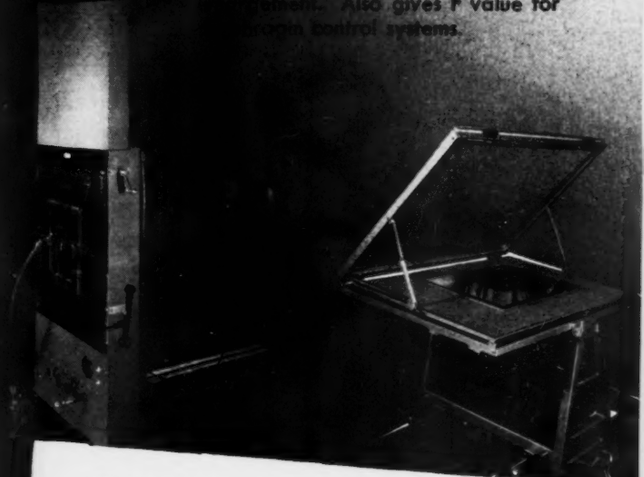
...to purchase are ... of stepping ... cost increases, ... The output ... de- ... the





Black and White Came... All Metal Construction A... Accuracy and Long Life

CAMERA BED—One piece construction eliminates torque or twist and assures accuracy in leveling... CENTER RAIL—Precisioned machined to .005 inches. Equipped with a single roller chain drive for inside and outside darkroom controls... LAMP CARRIERS—Rail, allows lamps to move with the copyboard. Carrier arms permit lamp turns of 180 degrees to 360 degrees... COPYBOARD—All metal construction. Counterbalanced for easy tilting. Easy-to-read ...ing scales assure quick settings. Electric timer ...shutter operates from inside or outside of dark- ...Adaptable to every type of diaphragm control ...VACUUM BACK—Hinged for easy loading. Takes ...standard film sizes without masks... SCREEN ...MECHANISM—Double safety feature pre- ...screen... FOCUSING DIAL—Gives ...percentage scale for reduction or ...enlargement. Also gives F value for ...exposure control systems.



*THE CHICAGO TRIBUNE—Two color cameras rotogravure department. Three color cameras for the color engraving department. Three cameras for black and white engraving department.

THE DENVER POST—One color and two black and white cameras.

THE LOUISVILLE COURIER—Two color cameras.

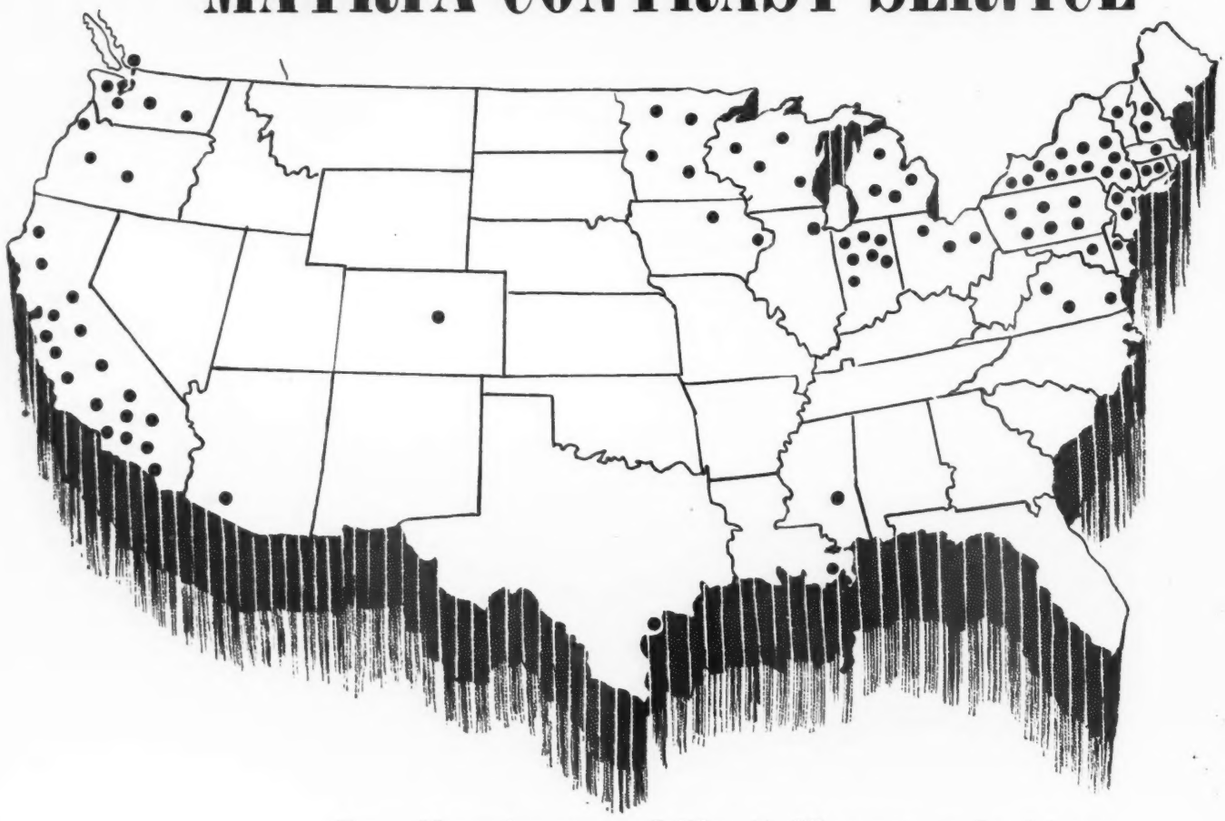
Consolidated

2646 W. NORTH AVENUE

PHOTO ENGRAVERS EQUIPMENT COMPANY

CHICAGO, ILL.

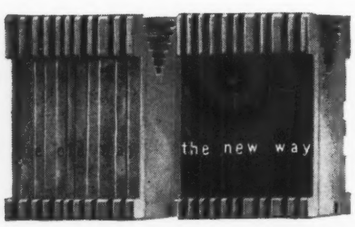
86 *new users of* MATRIX CONTRAST SERVICE ...



From Massachusetts to California, Minnesota to Louisiana, 86 publishers, printers and typographers have ordered Matrix Contrast Service in the last few months. That's the best testimonial we know as to the effectiveness of Matrix Contrast Service.

Many of these new users have taken advantage of Matrix Contrast Colors... yellow, green, red or orange against the same jet black background. These distinctive colors on different fonts aid in detecting wrong font errors and provide quick, positive selection of "pi" matrices.

In 1948, we're adding installations as fast as possible. If your name is not on our list of customers, won't you write, wire or phone for further details?



MATRIX CONTRAST CORPORATION, Empire State Building, New York 1, N. Y. — 326 W. Madison Street, Chicago 6, Ill.—1105 Trenton Street, Los Angeles 15, Calif.—Sole licensees of the Percy L. Hill Matrix Contrast Patent No. 1,796,023, other patent pending. European Agents: Funditor. Ltd., 3 Woodbridge Street, Clerkenwell Green, London, E. C. 1.

Matrix Contrast Service

To Our Readers — Through unavoidable circumstances the fourth installment of the current series on the Rotogravure process has been deferred until the August issue.

Program — Twentieth ANPA Mechanical Conference

(July 19, 20 and 21, Hotel William Penn, Pittsburgh)

IN ADDITION to a number of fine speakers on up-to-the-minute technical subjects, this year's ANPA Mechanical Conference program is marked by outstanding features. First of all, the entire first day's sessions will be devoted to consideration of the human element in the newspaper printing plant. The introduction of the subject of human relations in the printing plant at this year's conference breaks a precedent in the history of the ANPA Mechanical Conference. Without any intention of adding fuel to the fire already caused by neglect of newspaper executives with respect to the human element, we want to remark that this topic is long overdue. Listen to President A. C. Croft of the National Foreman's Institute, Dr. Ralph Lee of General Motors, and the other speakers who have given a great deal of study to human behavior in the printing plant. If a number of newspaper production and mechanical executives can only attend one day's sessions, we heartily recommend that they select Monday, July 19 as the day.

One of the highlights of the conference will be the report of ANPA Research Director C. M. Flint. This will be the first such report presented to the conference since the research program got under way.

In view of the reactivated ANPA-AAAA Joint Committee on Newspaper Printing, the report to be presented by Ben Dalgin of the New York *Times* and Ernest Donohue of BBD&O of New York, should be highly informative and satisfying to the great majority of newspaper mechanical executives.

Three old-fashioned sessions to be presided over by in-plant executives will give everyone a chance to "speak his piece" from the floor. These are: The Problems of Stereotyping, discussion to be led by L. J. Griner, Production Manager of the Detroit *News*; Pressroom Management, discussion to be led by Earl Weiskittel of the Youngstown (O.) *Vindicator*; and Composing Room Operation, discussion for which is to be led by Charles M. Wolf of the Pittsburgh *Press*.

The complete program is as follows:

Monday, July 19, 10 a.m.

INDUSTRIAL RELATIONS

Chairmen—R. E. Lent, C. H. Ruth, J. L. Stackhouse
Introductory Remarks—J. L. Stackhouse, Chairman, Mechanical Committee
Welcome to Pittsburgh—William Block, Co-publisher, Pittsburgh *Post-Gazette*
Opening Address—D. W. Howe, President, ANPA
Purpose of the Meeting—E. H. Evers, Chairman, Program Committee
A Need for Economics Understanding
Ray S. Tannehill, Sec.-Treas., Bell Telephone Co. of Pennsylvania
Film—"This is Our Problem"
Prepared by The Joint ANA-AAAA Committee on Improvement of Public Understanding of Our Economic System
Presented by C. C. Carr, Public Relations Director, Aluminum Company of America

Monday, July 19, 2 p.m.

INDUSTRIAL RELATIONS (Continued)

Chairmen—F. W. Schaub, E. H. Evers, R. R. Cranmer
Humanics in Printing
Dr. Ralph L. Lee, Public Relations Department, General Motors Corp.
The Employee's Stake in Scientific Management
R. I. Miller, Manager, Standardization Division, Curtis Publishing Co.
Training and Personnel Problems in a Newspaper Plant
Robert H. Spahn, Oklahoma Pub. Co., Oklahoma City, Okla.
Impact of Rising Costs on Newspaper Business
T. F. Mowle, Comptroller, *Wall Street Journal*
Film and Address
A. C. Croft, President, National Foremen's Institute, Deep River, Conn.

Tuesday, July 20, 9 a.m.

Chairmen—William Baumrucker, Jr., W. B. Pape, R. S. Stratton
The ANPA Research Program
C. M. Flint, Research Director, ANPA
Fire Hazards in Newspaper Plants
R. B. Quackenboss, Chief Engineer, Rollins-Burdick-Hunter Co., Chicago

(*Continued on Page 60*)

J. L. STACKHOUSE, President, Easton (Pa.) *Express*, Chairman of the ANPA Mechanical Committee.

JOHN L. BLAKE, Scripps-Howard Newspapers, New York.

WILLIAM BAUMRUCKER Jr., Adm. Asst. to Bus. Mgr., New York (N. Y.) *News*.

ANPA

EDWIN H. EVERS, Production Manager, St. Louis (Mo.) *Globe-Democrat*.

W. L. FANNING, General Manager, Yonkers (N. Y.) *Herald-Statesman*.

B. F. GARRITY, Personnel Director, Gannett Newspapers, Rochester, N. Y.

FRED W. SCHAUB, Treas.-Bus. Mgr., Decatur (Ill.) *Herald* and *Review*.

J. J. (Ted) SHEA, General Production Director, Hearst Newspapers, New York.

RUSSELL S. STRATTON, Asst. Gen. Mgr., St. Petersburg (Fla.) *Times*.

T. A. CORCORAN, Purchasing Agent, Louisville (Ky.) *Courier-Journal* and *Times*.

A. H. BURNS, Mechanical Superintendent, New York *Herald Tribune*.

RALPH R. CRANMER, Business Manager, Williamsport (Pa.) *Grit*.

Mechanical Committee

MAURICE A. HAGAN, Photo-engraving Superintendent Philadelphia *Inquirer*.

JOHN W. PARK, Production Manager, Chicago *Tribune*.

CHARLES H. RUTH, Production Manager, Washington (D. C.) *Star*.

W. E. WINES, Manager, ANPA Mechanical Department.

C. M. FLINT, Research Director, American Newspaper Publishers Association.

Other Committee Members

Other members of the ANPA Mechanical Committee whose portraits are not shown here are: R. E. Lent, Business Manager of the Jersey City (N.J.) *Jersey Journal*, and William B. Pape, Assistant Publisher, Waterbury (Conn.) *Republican* and *American*.

ANPA PROGRAM

(Continued from Page 57)

Flammability of Press Rollers and Blankets
John W. Park, Chicago *Tribune*
The Problems of Stereotyping
Discussion led by L. J. Griner, Detroit *News*

Tuesday, July 20, 2 p.m.

Chairmen—A. H. Burns, T. A. Corcoran, B. F. Garrity
How to Select the Proper Truck (Slides)
W. E. Turner, Truck Division, General Motors Corp.
Wire Tying Machines
John S. Gorman, Signode Steel Strapping Co.
Adolph Larsen, Gerrard Steel Strapping Co.
T. R. Sykes, Toronto *Star*
Mailroom Operation At Minneapolis *Star* and *Tribune* (Slides)
C. R. McGuire, Asst. Mech. Supt. and Harry Carver, Mailing Superintendent
Recent Improvements in the Dick Mailer
C. P. MacArthur, The Dick Mailer

Tuesday, July 20, 8 p.m.

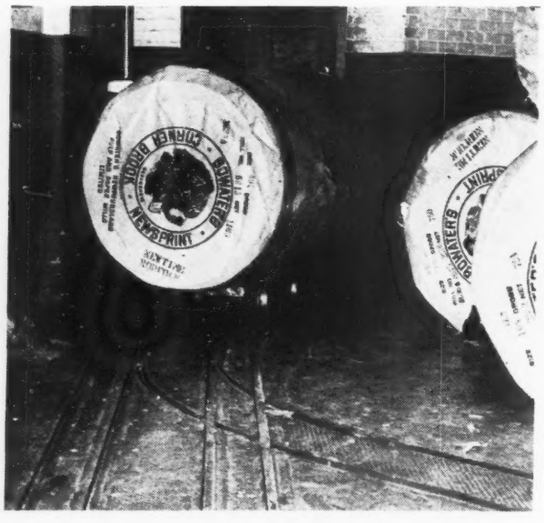
New Processes and Techniques of Producing Newspapers (Slides)
C. M. Flint, ANPA

Wednesday, July 21, 9 a.m.

Chairmen—J. J. Shea, M. A. Hagan
Pressroom Management
Discussion led by Earl Weiskittle, Youngstown Vindicator
Film—"The Inside Story"
Presented by E. H. Gould, Engineer, Socony-Vacuum Oil Co.
Lens-O-Matic—A New Halftone Exposure Control
K. R. Burchard, American Type Founders
Black and One-Color Engravings
E. M. Camus, Manager, Service Engraving Co., Pittsburgh
Experience With the Fairchild Engraver
J. L. Stackhouse, Easton (Pa.) *Express*
The New Cold Grid Printer
A. J. Powers, Jr., Chemco Photoproducts Co.

Wednesday, July 21, 2 p.m.

Chairmen—J. W. Park, W. L. Fanning, J. L. Blake
The Advertising Copy Problem
C. H. Ruth jr., Washington *Star*
Composing Room Operation
Discussion led by Charles M. Wolf, Pittsburgh *Press*
Report of ANPA-AAAA Joint Committee on Newspaper Printing (Slides)
Ben Dalgin, New York *Times*
Ernest Donohue—Batten, Barton, Durstine & Osborn, New York



Switches and a turntable inserted in the trackage of the pressroom floor in the plant of the Asheville (N.C.) *Citizen* and *Times* has been found to be profitable investment, even for a so-called small - daily newspaper plant.

Track System in Small Daily Pressroom Is Time-Saver

By DR. RUSSELL RAYMOND VOORHEES

THERE is a great difference, of course, in the physical layout between the large city daily and the one in a smaller city. Very often the owners of the daily in the smaller city do not feel that the expenditure necessary to install improvements will pay off because of the lesser income. But often such reasoning is not too sound. The Citizen-Times Co., Asheville, N. C., publishers of *The Asheville Citizen* and *The Asheville Times*, is a good example of what the publisher of daily newspapers in a smaller city can do to improve publishing facilities and save time. The pressroom of these dailies, published in a city of some 50,000 population is equipped with a complete track system for delivery of newsprint rolls in the press room.

The Jampol track system is equipped with turntables and switches so that the dollies on which the rolls of newsprint are transferred to any part of the press room can be moved at ease and switched around at will. The newsprint is unloaded at the side of the building and from the unloading platform the newsprint is rolled to an elevator which takes it to the basement where the pressroom is located.

In the basement the rolls of newsprint are rolled off the elevator platform onto a dolly waiting on a track that runs alongside the elevator. Once on the dolly, the roll of newsprint is pushed easily to whatever part of the pressroom is desired.

A turntable is provided at one point in the track system. This enables the dolly loaded with a roll of news print to make a right angle turn and so be pushed along the track that runs alongside the Hoe press where the roll may be pushed off the dolly and transferred to the waiting press.

It is reported that this Jampol track system permits a truck of newsprint rolls to be unloaded and transferred to the basement and put into storage space in one-tenth the time that would be required without the track system. The saving in handling time is effected in transferring rolls of newsprint from their storage spot to the press, all of which adds up to a valuable saving in time for a plant that turns out two dailies every day six days a week with a sizable Sunday edition to boot. This proves that even in the smaller city dailies there is a financial reason to install some of the labor-saving devices usually found in the plants of dailies located in larger cities.

EQUIPMENT & SUPPLIES

Automatic Pump for Stereo Pots

THE Wood Pneumatic Metal Pumping System is applicable not only to Wood Junior and Pony Autoplate Machines for casting stereotype plates, but it can also be applied to any pot upon which a standard pump can be mounted. Hand operated pumps can be altered and provision made for the attachment of the Wood Pneumatic Pumping System in the field by a Wood engineer.

It is pointed out by Wood Newspaper Machinery Corp. that with this automatic pumping system the fatiguing work incidental to hand pumping is eliminated, and fewer casts are necessary because of more uniform pouring of molten metal into the casting box.

Safety features are incorporated in the design of the pumping system. Only one plate can be poured at a time, because the cylinder must be revolved 180 deg. before a second pouring can be made. The danger of pouring into an open plate-casting box is eliminated. This is accomplished by a limit box switch which controls a normally closed solenoid valve that is energized only when the casting box is closed.

An adjusting screw is provided for determining the height of the tail.

The pump is operated by air. A pressure regulator controls the amount of air going into the pneumatic cylinder. Air pressure required is never over 40 lbs. to 45 lbs. max.

Wood states that the pumping system is ruggedly made of wrought iron. incorporating minimum number of parts in its construction. Included are supporting brackets, hoses, air piston, piping and control mechanisms.

View of Wood Pneumatic Metal Pumping System for casting stereotype plates. Shown in this view is the air piston with connecting hoses. Note also the air pressure regulator and the pressure gauge. A limit switch (not shown) prevents dangerous pouring of molten metal when the casting box is open.

Illustrated CMC Folder

IT has been announced by Craftsman Machinery Co. that the CMC Jobber press is back on the market after a lapse of five years. Announcement was made by Louis Aplert, son of the company's founder. Company has prepared an illustrated folder which is available on request to the company direct or through *Printing Equipment Engineer*.

ATF Appointment

JOHN T. PORTER of Santa Barbara, Calif., has been appointed Pacific coast representative for the department of education, American Type Founders Sales Corp., it was announced by John A. Backus, department manager. He will make his headquarters in the company's Los Angeles offices, at 470 E. Third St. Mr. Porter is a member of Epsilon Pi Tau, national professional fraternity in industrial education; Alpha Phi Gamma, honorary national journalistic society; the National Graphic Arts Association, American Vocational Association, California Industrial Education Association, and Reserve Officers of the Naval Services.

G-S Eye Sweep

WHEREVER industrial accidents occur, and especially where workers are exposed to flying metallic fragments, filings or other foreign metal substances subject to magnetic attraction, the General Scientific Eye Sweep is an indispensable first aid unit. It is a convenient instrument for clinic, hospital and physicians office. One end is fitted with a magnet for removing steel splinters, while the other is fitted with a flexible loop for removing cinders, dust and other particles. Sterilization of the instrument, it is claimed, will not diminish the magnetic qualities nor affect the loop. A hard rubber carrying case is provided with each Sweep.

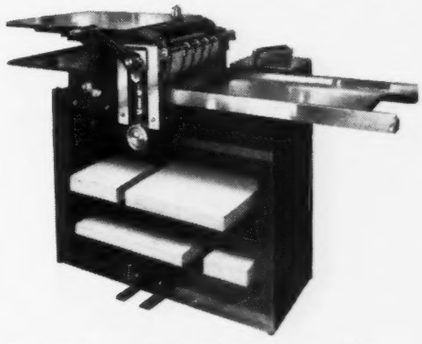
In the illustration, the non-magnetic loop of the G-S Eye-Sweep is being used to remove a particle from the patient's eye. Other end is magnetized for removal and magnetic-attractable particles getting into the eye.

The G-S Eye Sweep is available from the General Scientific Equipment Co. *Printing Equipment Engineer* will be glad to forward your inquiry.

Two New Proof Presses

THE Challenge Machinery Co. has announced a new series of proof presses. Style K, the first of three styles is now being shown. It is made in two sizes. No. 1528 (maximum form. 14½ in. by 23½ in. and No. 2028 (maximum form, 19½ in. by 23½ in.).

This press operates like a cylinder



Challenge's new Style K Proof Press (the first of a series) is made in two sizes: No. 1528 accommodates max. form of 14½ in. by 23½ in. and the No. 2028 accommodates max. form of 19½ in. by 23½ in.

(Continued on Page 70)

The new Hoe presses have been erected and are in operation in plant of the Christian Science Pub. Society, Boston. Presses print the daily editions of *The Christian Science Monitor*. The working side of the presses is on the opposite side. This is an interesting view because it was taken after the presses were put into operation and the old presses had been dismantled and shipped out of the building. In the foreground can be seen the old press foundation holes in the pressroom floor. Since installation of new equipment, the pressroom has undergone a complete repainting. In order to adopt a color scheme one of the leading paint manufacturers conducted exhaustive tests in the field now called color mechanics.

Presses

***Interesting account tells how they were installed in Christian Science Publishing Society plant, Boston, for printing daily editions of* Christian Science Monitor**

By HERBERT T. STANGER*—

**Production Manager, Christian Science Publishing Society, Boston.*

THE exercise of considerable ingenuity sometimes is required to get new equipment into and install it in existing printing plant buildings. In the case of the new Hoe presses upon which the *Christian Science Monitor* is now printed, the presses had to be erected in the same room in which the old presses were being operated daily. It is thought a pictorial account of the installation procedure would be of interest to readers of *Printing Equipment Engineer*.

In the first place, the new Hoe presses weighed in excess of 400 T. Installed, they are about 100 ft. long, 12 ft. wide and 16 ft. high, not including the basement substructure. The presses consist of 10 units (five each) and in combined operation are capable of printing 90,000 papers per hr.

Our Publishing House is located in Back Bay, Boston, Mass., on made land. Originally, this section of Boston was just what the name indicates,—a shallow tidewater, mud-flat bay. Years ago it was filled in to become the valuable property that it is today.

To provide a suitable foundation for the new presses the basement floor was constructed as a 32 in. thick reenforced concrete slab resting on spread footings.

To bring the reel room floor up to the level of the surrounding basement, 12 in. of cinder fill topped by 4 in. of concrete was laid.

Our old presses were comprised of a line of three octuple Goss presses. These were purchased in 1924 and installed in our old building across the street from our present quarters. When we moved into our new building in 1934, we moved these presses, installing them in a single line in the present pressroom.

Preparing New Press Supporting Base

To provide for expansion, our pressroom was built large enough to install a second line of presses parallel to the first. To construct the foundation, therefore, for the two new five-unit Hoe presses it was necessary to break through the 4 in basement floor, take out the 12 in. cinder fill to get to the 30 in. concrete mat on which the new presses were to rest.

To confine the concrete dust caused by breaking up this temporary floor, we constructed a movable boxlike room made up of wall board (2 x 4's and wall board) and connected it to an exhaust duct in the ceiling of the pressroom by a wall board flue. This created a slight vacuum and kept the concrete dust from spreading about the pressroom and getting into our old presses, which, of course, were in full operation all during the erection of the new presses.

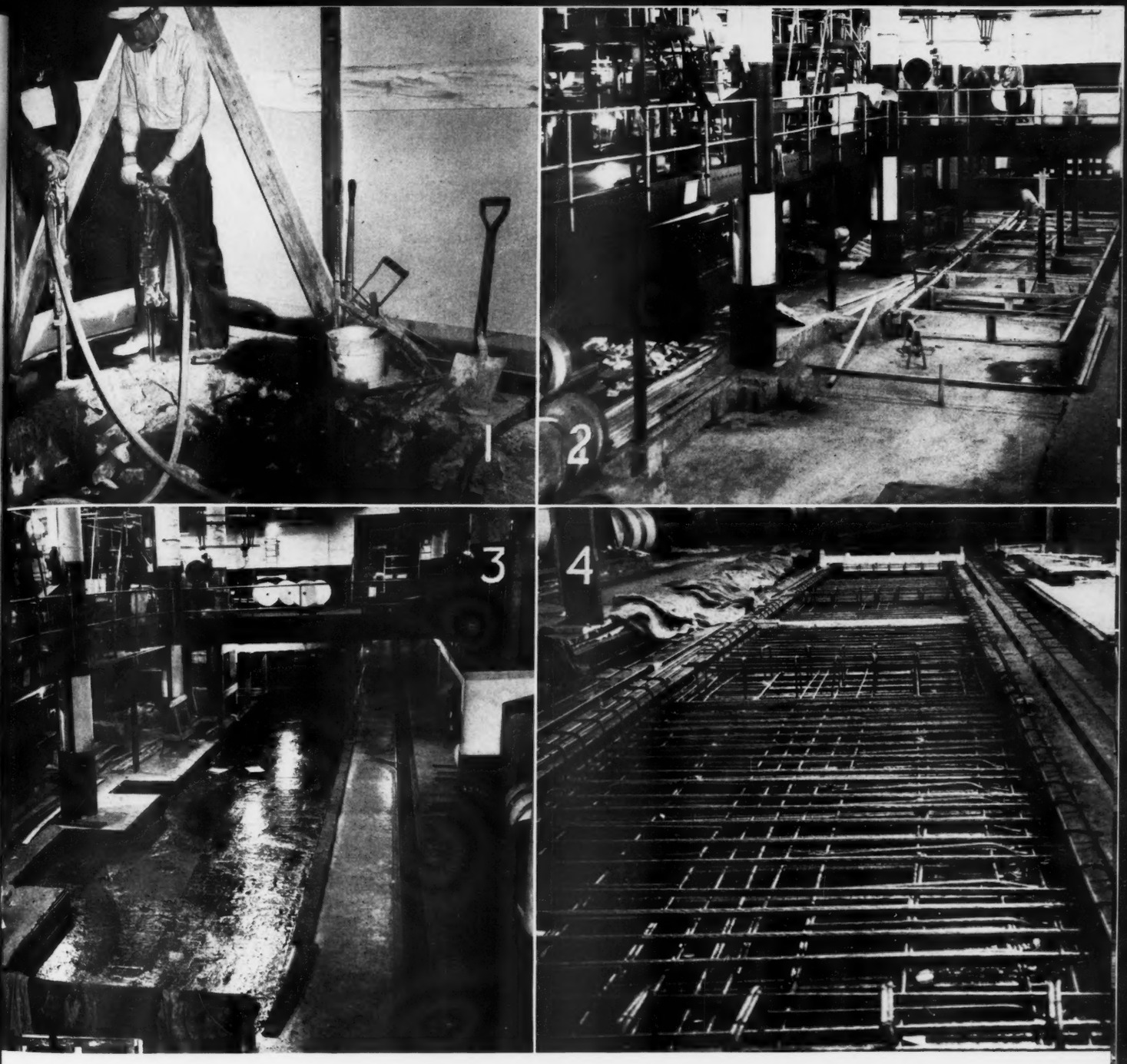
The removal of the 4 in. concrete floor and 12 in. cinder proved to be more of a chore than anticipated. We found that the concrete topping had permeated the fill, making virtually 16 in. of the hardest flint-like material that we have witnessed for some time, to be removed.

The portable room, a section of which is shown in the accompanying pictorial layout, worked like a charm. In this picture, the workmen had just moved the structure to a new position, having removed the concrete from the first position enclosed by the temporary room.

Presses Designed for Color

One of the advantages of the new presses, built by R. Hoe & Co., is that they are designed and laid out especially to handle color printing in as many as four colors. They are also designed so that additional color equipment can be added at comparatively little trouble or expense.

(Continued on Page 66)



Production Manager Stanger in Collaboration with Photographer Lyman W. Fisher, prepared this Pictorial Story About New Press Installation in the Plant of the Christian Science Publishing Society, Boston—The presses are used daily on week days to print *The Christian Science Monitor*. The Hoe color convertible presses are capable of printing 120,000 papers per hour, up to 40 pages each. Better than half a million dollars have been invested in this equipment. Presses weigh more than 400 T. They are about 100 ft. long, 12 ft. wide and 16 ft. high, not including the basement sub-structure. The two presses contain five units each, and can turn out 45,000 papers each, or 90,000 per hr. In the following series of pictures, all of the important operations employed in preparing for and assembling the presses are included. To the knowledge of *Printing Equipment Engineer*, this is the first pictorial account of such an installation to have been made. Production Manager Stanger's descriptions in the captions will help interpret each picture.

1.—A view inside a corner of the portable room showing two men using jack hammers to break up the concrete. The room covered only the immediate section of old concrete floor being removed in preparation for laying a new one for the new presses to be installed. During the time of removal of the old floor and installation of the new, the old presses were kept in operation. We believe this is a novel idea for preventing fine concrete dust flying around the pressroom. As the work progressed, the room, being light in weight, was moved over to a new position, and each time the duct (also comprised of wallboard) leading to the ceiling exhaust vent, was reconstructed.

2.—In this illustration, the 16 in. concrete sub-floor has been removed. Wooden forms to square off the sides were being erected.

3.—In order to sound-isolate the press we lined the bottom and sides with Korfund, using 2 in. thickness on bottom and 1½ in. thickness on sides. It is an especially prepared cork which proved highly satisfactory under our old presses. This was laid down in sections, covered with tar paper and mopped in with roofing pitch so that when concrete was later poured in, it would not permeate the cork to render it useless as a sound isolator.

4.—These views show the press foundation I beams in place together with reenforcing rods ready for the concrete to make it a homogeneous slab resting on top of the Korfund sound isolation. The I beams running the length of press foundations on either side were so placed to support the substructure bedplates upon which the press columns were erected.

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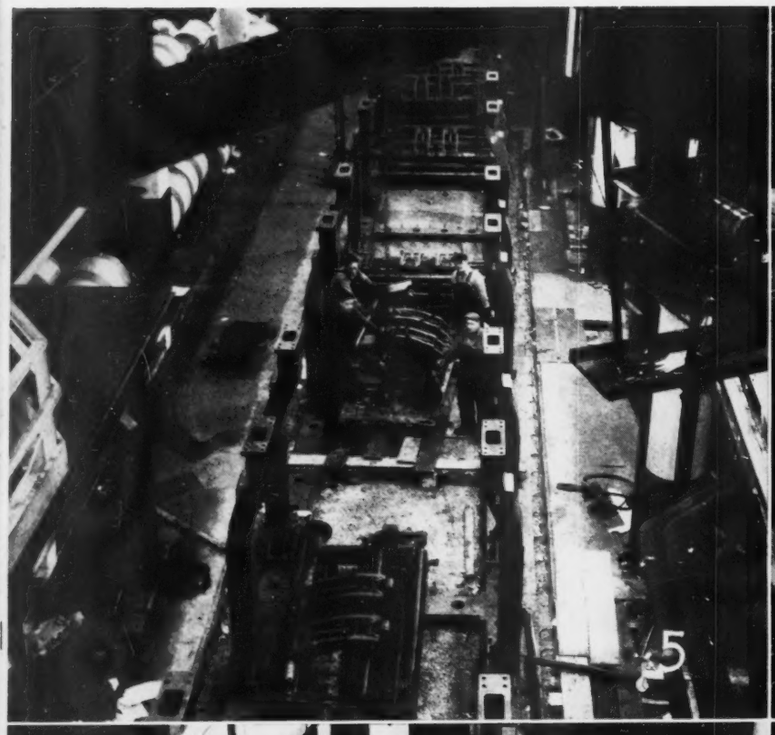

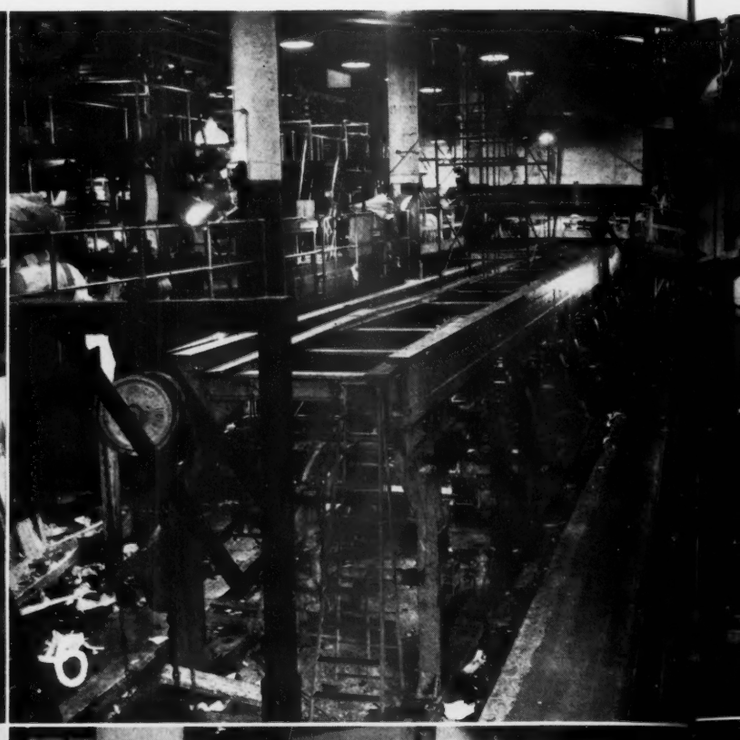

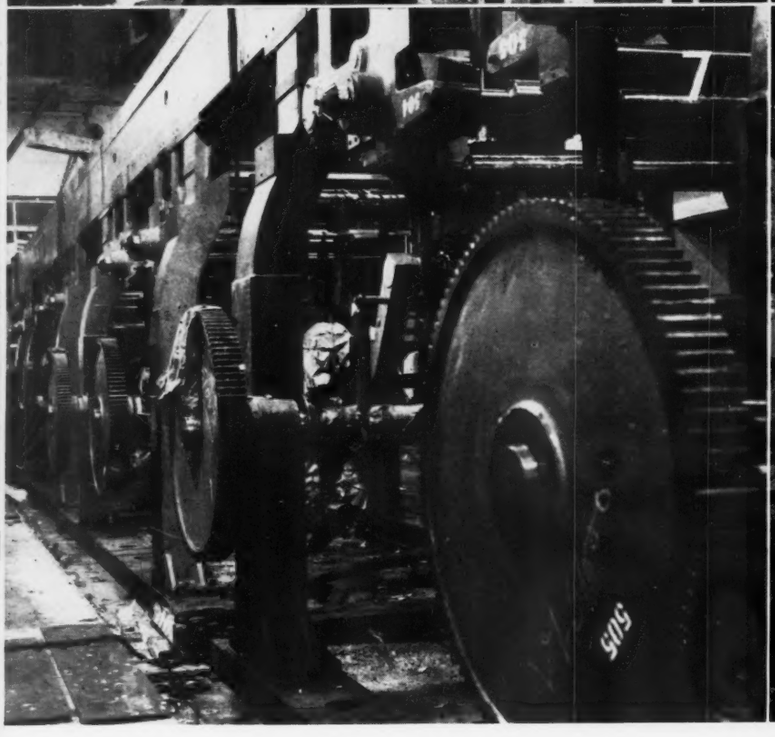

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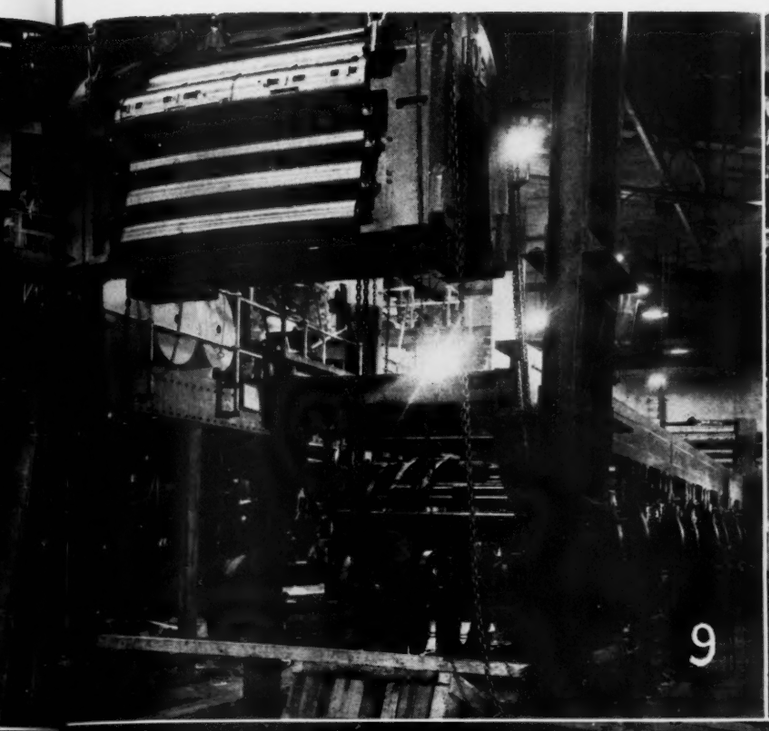
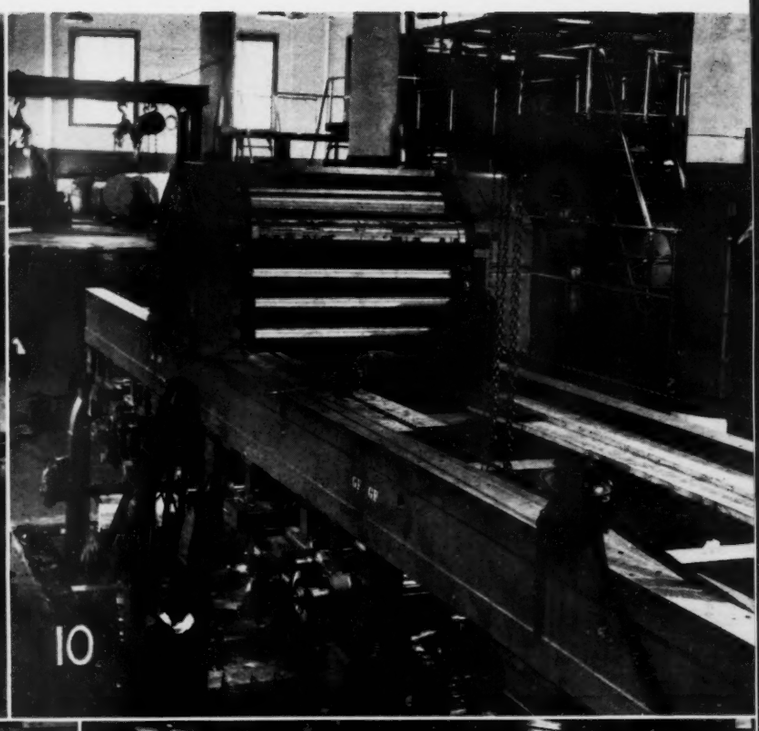
5.—This view shows the press columns erected. Also the paper roll belt tensions skidded into position.

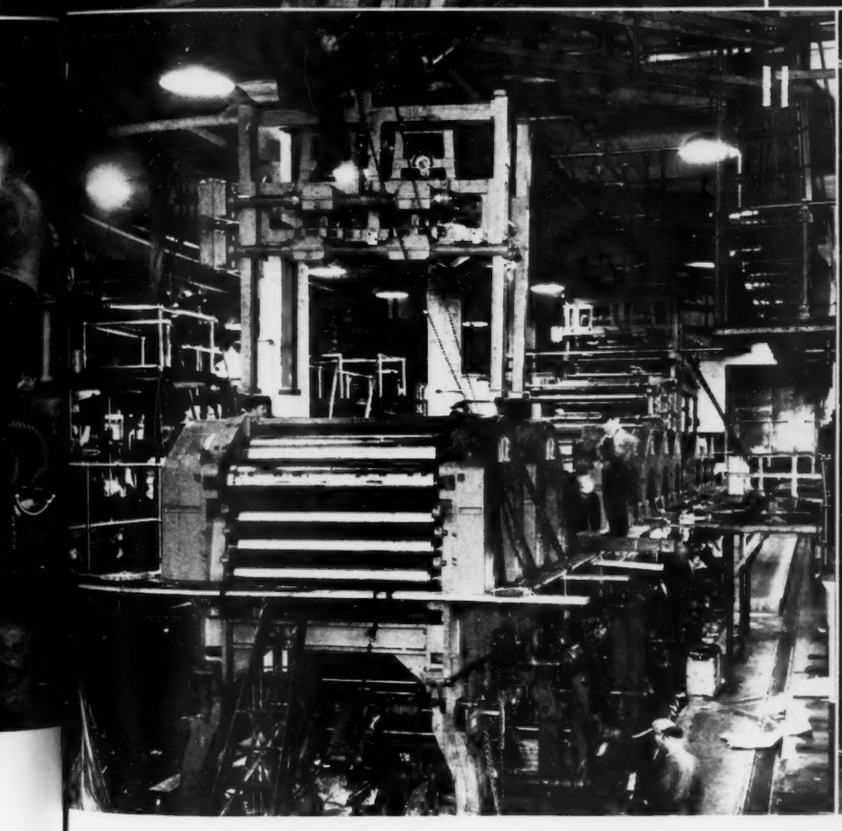
6.—This picture shows the substructure columns and press bedplates in position. It also shows just enough concrete poured into the foundation to cover the reenforcing rod. When the entire presses were erected and lined up, the remainder of the concrete was poured into the foundation to complete covering the substructure bedplates. This tied it all in as a homogeneous whole. At the left the old presses can be seen. These were under full operation during the entire construction of the new line of Hoe presses.

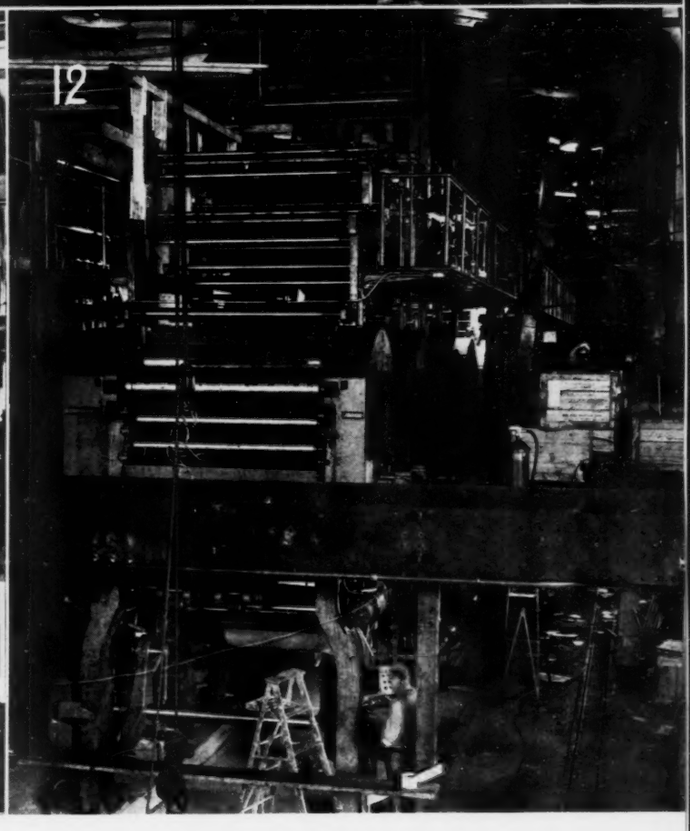
7.—A peep from the Reel Room floor showing belt tensions and reel gearing in position.

8.—Here one of the units is rolled through the opening into the Pressroom. The unit at the right is about to be picked up by a gantry and set down on the press bedplates.









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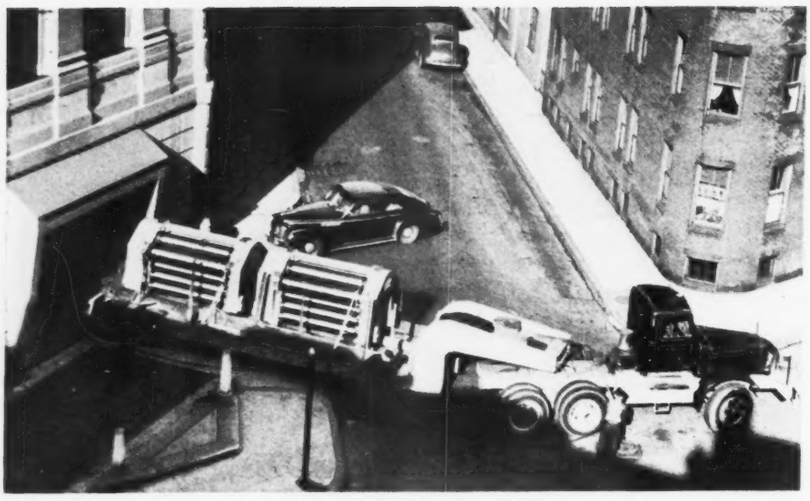
9.—Shows the press unit as picked up by the gantry and carried over to the bedplate where it is skidded into position.

10.—Skidding the press units into place. The top of the bedplate was lubricated to cut down the friction that normally would develop in handling the units in this fashion.

11.—The last of the units is in position and the folders are riding up over the press units ready to be lowered into position. To perform this operation, the I beam directly over the press units was utilized.

12.—Here the press is completely assembled. Folders are in position, reels and high-speed pasters assembled. The wooden scaffolding in the upper left-hand corner facilitates the erection of electrical conduits for the motor drives and press wiring.



View showing how two of the Hoe press units (15 T. each) were shipped by highway trucks from New York to Boston intact over the road to plant of the Christian-Science Pub. Society. The entire press was shipped in this fashion. The saving in erection cost, both as to time and expense in shipping as compared with the older method of tearing the press completely down at the factory and reassembling it again in the pressroom is quite an item. In order to get the press units into the building a part of the wall of the pressroom was taken out. The entrance into the building, therefore, was temporary.

PRESSES

(Continued from Page 62)

Capacity of Presses

The two new presses consist of five units each—10 in all. Each unit is capable of printing two eight-page papers a revolution of its plate cylinders. Thus two units are needed to print newspapers of 10 to 16 pages, and three units to handle papers of 18 to 24 pages. Five units—all those in one of the two presses—therefore, will print two 40-page papers a revolution.

Each press has a folder, in which the output of all units being used, is brought together, folded, cut into separate papers, and fed into the conveyor system which starts the *Monitor* on its way to near-by homes and far corners of the world.

When both presses are used simultaneously, each one sends a flow of papers up to 40 pages in size, into the conveyor system.

As a matter of fact, the presses actually can turn out 60,000 papers an hour each —a total of 120,000. But at such tremendous speed new factors enter into the picture that make it unwise and impractical to run at that rate. For example, a motorcar can, perhaps, attain a speed of 80 m.p.h., but we all realize that driving at such speed, except under extraordinary conditions, is out of the question.

We have geared the motors to print at a maximum speed of 45,000 an hour for each press. The average running speed, however, will be in the neighborhood of 40,000 an hour—or 11 papers a second on each press.

Gears Run in Oil

The high maximum speed of 120,000 papers an hour—making 33 a second—is made possible by advanced engineering knowledge and improved materials. Among features of the new presses are heavy, rugged construction; solid steel cylinders; antifriction bearings, and specially designed gears, running in oil baths.

Other features include: The Hoe system of ink distribution, using 32 individually adjustable pumps for each cylinder; dual installation of this system, so that change-over from black to colored inks is quick; a simplified system of reversing the printing cylinders, when this is necessary for setting up combinations of the different units for color work; instantaneous plate lock-up; and a splicing mechanism which attaches the expiring end of one fast-spinning 1500 lb. roll of newsprint to the beginning of another without a moment's interruption of the movement of the paper into the press at a speed of around 1400 f.p.m.

This is done by speeding up the movement of the new roll to match that of the paper just running out, while the pasting device also matches this speed for the moment. The result is that for a split second all three are standing still in relation to each other, and the pasting is done in that flash.

It takes plenty of power to run these presses. Each of the two presses has two driving motors, one of 150 h.p. and the other of 100 h.p. The larger of the two is used alone when three or less of the five press units are running. The other is added when four and five units are in action. Thus, it takes a total of 500 h.p. to turn out the full output of 90,000 40-page papers an hour.

Magnetic Paper for Pasteup Use

At the recent ANPA Conference in New York, John W. Park, Production Manager of the Chicago *Tribune*, stated further improvements would be made in preparing the pasteup sheets for the pasteup sheets or boards used for photo-engraving copy in the want ad pages. *Tribune* type composition has been produced largely through the use of typewriter-like machines and photo-engraving for approximately seven months.

The new method eliminates pasting down individual want ads in the makeup of the pages. This is accomplished through the use of magnetic paper which is coated on one side with iron dust. The want ads are typed on the typewriter-like machine on the other side. The ads are then arranged on the magnetized page make-up boards and are held in place until it is desired to move them. The ads may be rearranged or removed in individual units.

As has been stated above, the want ads are typed on strips of the magnetic paper. The strips are 5 in. wide. On each strip is ruled the column width $3\frac{15}{16}$ in. wide (the page makeup being reduced in the photo-engraving department). A blue line positioned $\frac{1}{8}$ in. inside the rule on each side serves as a typing guide, the typewriter operator typing between the two blue lines. After typing, the strips are cut apart, sorted as to classification and are arranged according to classification on the magnetic makeup board. When completed, the board is sent to the photo-engraving department.

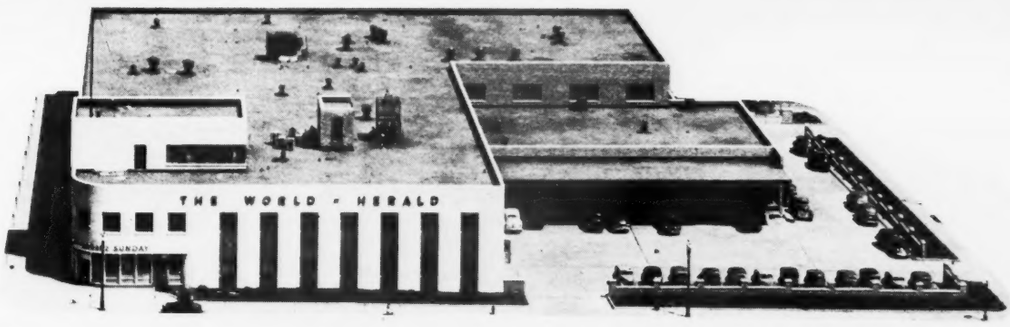
German Plates

(Excerpt from technical panel discussion at the 41st Annual Convention of the Lithographers' National Association in Atlantic City, N. J., May 1946.)

Paul W. Dorst of Lithographic Technical Foundation, spoke of his observations while in Germany during the war and said that one of the things lithographers would be most interested in was a plate developed by the Germans just before the war. The plate is a bi-metallic plate with a brass base and with non-printing areas plated with stainless steel.

EXCELLENT FINGER MOISTENER

THE custom of using glycerine to moisten the fingers has been given a new twist in the print shop of the Roanoke Printing Co., 409 First St., S.W., Roanoke, Va. The firm buys ordinary rubber stamp pads (before they have been inked, of course) and saturates the pads with the glycerine. When not in use the cover is closed over the top. This firm uses these glycerine pads in its shop and bindery.



This picture of the new home of the Omaha (Neb.) *World-Herald* was taken at an elevation of 250 ft. The building occupies most of one city block which has been named World-Herald Square. Facing is Kasota stone in a pink-buff color. Other facings (not shown) are gray-buff brick. Letters and figures are in bronze. Shown at right are the one-story mail room and the loading dock area.

World-Herald

of Omaha, Neb. in fine new building with much new equipment — Expansion provided for in compact plant— 100% horizontal production flow

By E. K. LANGEVIN*

**Assistant City Editor, Omaha (Neb.)* World Herald

THE new Omaha (Neb.) *World-Herald* building is one of the most modern newspaper plants in America. It is thoroughly practical, from the standpoint of providing faster functions with less effort. The plant is a triumph of intelligent planning. It is a combination of architectural skill, and newspaper experience and know-how.

Speed is essential in publishing a daily newspaper. Present operations have been given greater latitude and more speed. Future needs have been taken into consideration.

Henry Doorly, publisher of the Omaha (Neb.) *World-Herald* since 1934, started with paper in July 1903. Is son-in-law of late Senator G. M. Hitchcock who founded paper in 1885.

Ben H. Cowdery is assistant publisher of the *World-Herald*, and is a son-in-law of Publisher Henry Doorly. He started with the paper in 1934, and has served in various capacities.

Vernon H. (Bing) Smith is business manager of the paper and is a director of the company. He started in 1939 as manager of Radio station KOWH, one of *World-Herald's* two stations.

A newspaper plant is primarily a factory.

In it are combined raw materials such as paper, ink and metal, refining them with skilled mechanical operations and amazingly intricate machinery. It packages the news and features and photos and advertisements into a readable, compact form, and arranges for delivery to the customers.

The new plant is somewhat revolutionary. The *World-Herald* is probably the only newspaper of metropolitan size in which the mechanical departments are located on one floor.

Printing hundreds of thousands of big newspapers thirteen times each week involves a tremendous amount of interdepartmental traffic.

Traffic Flows Horizontally

In the new building, this traffic has been deliberately arranged to flow horizontally. This is the revolutionary part of the plan. It saves time and labor.

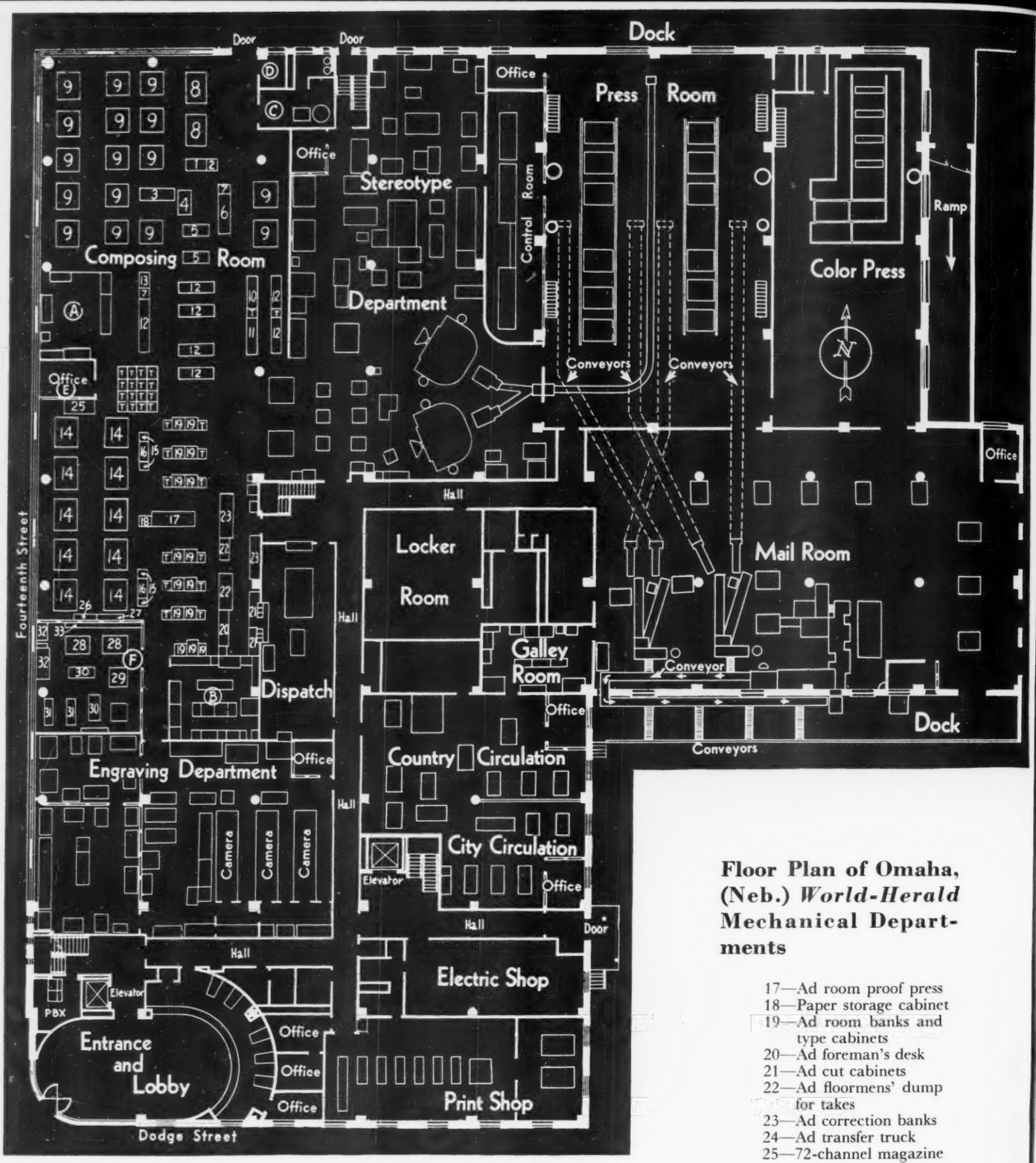
In many other newspaper plants (and this was true of the *World-Herald's* former building), the various departments were scattered on five or six floors. The traffic was vertical—an up-and-down flow of copy, cuts, type, printing plates and finished papers.

For example, news and advertising copy came from two different floors to

Floor Areas

Floor Area—Length: 155 ft. Width: 55 ft. Total, 8525 sq. ft.

Approximate sizes of departments: Engraving department is 44 ft. by 68 ft. with 2992 sq. ft. of working space. Composing room is 55 ft. by 160 ft. with 8525 sq. ft. Stereotype department is 44 ft. by 96 ft. plus an area leading into the pressroom, providing more than 5000 sq. ft. Pressroom with two Goss 6-unit presses (black-and-white) is 88 ft. by 50 ft., with 4400 sq. ft. The room for the color press is 88 ft. by 32 ft. with 2816 sq. ft. Mailroom is 58 ft. by 80 ft. with 4640 sq. ft. This does not include the loading dock.



Floor Plan of Omaha, (Neb.) *World-Herald* Mechanical Departments

Area A—Machinist's room
Area B—Job department
Area C—Metal remelt room
Area D—Mens' toilet

Note: Additional toilets, showers, lockers, etc., for men of all the mechanical departments in large area marked Locker Room.

Office E—for Supt. Joe Haller
Area F—Monotype room
T—Makeup trucks
1—Copy desk
2—Pneumatic tubes to and from editorial, sports, classified ads
3—News dump
4—Vandercook proof press
5—Proof desks
6—Correction bank
7—Saw
8—Intertype headletter machines (G4-4SM)
9—Intertype news machines (Models B and C)
10—New type stone
11—Transfer type stone
12—Makeup stones
13—Page storage cabinet
14—Ad machines (2 model G4-4SM, 3 model F4-4SM, 2 model F2-2SM, 3 model C Intertypes)
15—Ad room saws
16—Material storage cabinets with vertical mitering machines mounted on top of each
17—Ad room proof press
18—Paper storage cabinet
19—Ad room banks and type cabinets
20—Ad foreman's desk
21—Ad cut cabinets
22—Ad floormens' dump for takes
23—Ad correction banks
24—Ad transfer truck
25—72-channel magazine rack
26—90-channel magazine rack
27—Ad machine dump stone
28—Monotype material makers
29—Monotype giant casters
30—Monotype work benches
31—Elrod strip casters
32—Monotype mat and mold cabinets
33—Monotype type storage cabinets

William A. Schmitz, veteran employee, started with *World-Herald* in 1920. Is superintendent of the engraving department to which post he was named in 1940.

Joe Haller, 36, is youngest man ever selected by *World-Herald* as composing Room Superintendent. Started work in 1936, was night foreman four years starting 1942.

W. F. (Duke) Meehan is superintendent of the stereotype department, a post he has held since 1941. He began work with the *World - Herald* in 1919—likes his job.

the composing room. When the type was set, the pages were moved to the stereotype department. Printing plates were made. They took a three-story plunge to the pressroom. After the papers were printed, they were conveyed to the second floor. They were bundled and routed back to a first-floor dock to the trucks.

Traffic was up and down—day and night—from one level to another.

In the new building, the traffic moves forward—horizontally. The entire first floor is given over to the mechanical departments. They are arranged so that the work of each immediately dovetails with its neighbor.

First, the news and photos and advertising copy are processed in their respective departments. These are on the second floor. All the material is speeded to the first floor by pneumatic tubes.

Now the copy is on an arterial highway. The speed is forward—horizontally.

Cuts are made of the photos in the engraving department. They are rushed to the composing room to be placed with the type. Finished pages are moved only a few steps into the stereotype department. The printing plates are mechanically conveyed to the adjacent pressroom.

The printed papers travel on overhead conveyors to the adjoining mail room. They are bundled and horizontally conveyed to the loading dock and into the delivery trucks.

This is manufacturing. It is a skilled arrangement of production lines which leads toward one goal—delivery to the readers.

Planned by Department Heads

The entire arrangement was planned by the *World-Herald's* department heads. These men have backgrounds of experience and practical knowledge. They cooperated with the architect, telling him what they wanted, and explaining the mechanical processes, and the flow of traffic. Together, they worked out the most modern arrangements.

Structurally, the building is of reinforced concrete, and has a minimum of supporting pillars in working space. More than 7000 cubic yards (180 thousand cu. ft.) of concrete went into the building. It has a full basement.

The building is constructed for future expansion. It can be extended to the east, and a third floor can be added.

Its length along one side (Fourteenth St.) is 240 ft. This is the length of a city block. Its greatest width, on Capitol Ave., is 227 ft. The Dodge St. frontage is not as long, due to a recess which fronts on the mailroom. This area is for trucks and a loading dock.

There are 125 thousand sq. ft. of working space. A wide dock extends along the north side of the plant, connecting with the pressroom. Along this dock is railroad trackage, providing to-the-plant delivery of newsprint.

The exterior of the building on Dodge and Fourteenth Sts. is faced with Kasota stone in a pink-buff color. Other faces are of gray-buff brick, and glass brick. On two sides are ornamental bronze letters: *The World-Herald.*

Over the rounded, decorative entrance are smaller bronze figures, telling the paper's circulation. The entrance is of aluminum and glass, and has a revolving door.

Within, the entrance lobby is bright with tinted upper walls and an acoustical plaster ceiling. The lower walls and the counters are panelled in a greyed walnut. The lobby is somewhat oval in design.

A rounded counter is set off with a black formica top. Overhead are cleverly-recessed lights. They are a combination of daylight fluorescent and incandescent. Two big circular light domes have air conditioning outlets in their centers.

The first floor departments have structural ceramic glazed tile walls. The ceilings are of acoustical tile. There are various types of floors covering the concrete.

The Floors

In the engraving department for example, the camera room has asphalt tile, with red quarry tile in the etching room.

A wood block-on-end, heavy-duty industrial type floor has been laid in the composing room and in the stereotype department. It is also seen in the lower hallways.

The pressroom has a ferralund plate floor around the presses. This is a non-slip metal flooring.

All the mechanical departments are big, airy, and well-lighted. Glass brick walls also contain practical windows. The panes have a slight blue cast which holds out the heat of the direct sunlight.

Executive Offices

On the second floor are the executives' offices; the news room; the reference library; the promotion department; all the advertising offices; the auditing department.

The color scheme is a greyed green, with white acoustical ceilings. It is a restful combination of color. The floors are covered with grey rubber tile set off by a black rubber base.

There are two elevators in the two-story building. One is for passengers;

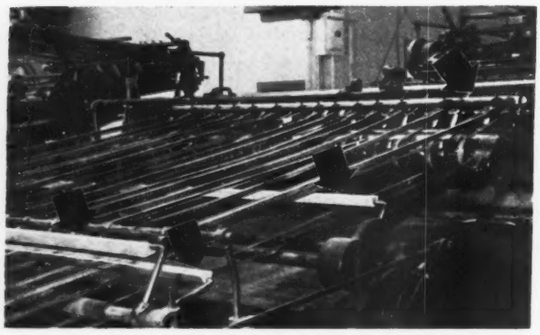
(Continued on Page 120)

Henry Schlecht, pressroom superintendent began work in 1902. He was then boy of 12. At 21, was made foreman. In 1916, he was promoted to superintendent.

R. A. Jacobson is superintendent of the mailroom, a post he has held continuously since 1925. He began work at the *World-Herald* a year earlier. He likes fast-moving job.

Ruben Holmgren is maintenance manager of the new plant and is chief electrician, too. Keeps power flowing to presses. Began at *World-Herald* in 1929.

Equipment and Supplies (*Continued from Page 61*)



Four Ionotron Static Eliminators, installed on a Miehle Perfector Press in the Quinn and Boden book manufacturing plant at Rahway, N. J., it is announced, bleed off static and step up production.

Ionotron Installed in Book Plant

IN THE pressroom of Quinn and Boden's book manufacturing plant at Rahway, N. J., Ionotron bars are attached to the Miehle fly delivery Single and Perfector presses. The function of the bars is to bleed off static. Quinn and Boden installed eight Ionotrons, four of which are used in pairs on each press, one above and one below the delivery tapes. One pair is installed near the point where the sheet leaves the cylinder; the other pair, at the lower end of the tapes, near the fly.

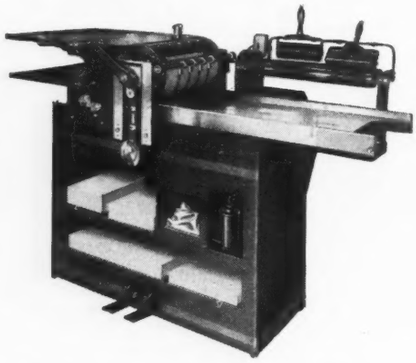
H. C. Hoffman, assistant pressroom superintendent said: "The Ionotrons make it possible for us to speed up production at two points. The first is on the press itself. The greater the speed at which a press is run, the more the static. The Ionotrons handle the higher charges that accompany increased press speeds. Jogging is now so even, that the final hand jogging between the pressroom and folding room frequently can be eliminated. Advantages of the Ionotron are especially appreciated when running light-weight sheets, such as Bible stock."

The bar-like Ionotron contains a source of continuous radiation, and is attached to the press near the point where the static charges are generated. This radiation ionizes the air, making it a better conductor of static electricity, so that the static charges flow off through the ionized air to the eliminator, and from there harmlessly to ground.

The Ionotron life, manufacturer states, is long, and the unit will outlast the equipment on which it is installed, as the radioactive source loses 50 per cent of its power in some 1500 years. Sole maintenance needed is to keep the active surface wiped clean with a soft cloth. The Ionotron static eliminator is a product of U. S. Radium Corporation.

press. The cylinder revolves while the reciprocating bed rides on anti-friction rollers. Sheets are fed to cylinder grippers and a micrometer side guide. A foot trip prevents offset on the cylinder packing during the return stroke of the press. The feed board slides back to provide access to the cylinder packing.

The machine is equipped with feed board, delivery board, zinc galley plate, and a combination ink plate and wiper box. The welded steel stand has shelves for paper and ink cans. Also included are the cylinder packing, wrenches, and a Challenge 6 in. safety brayer with all-season cast roller.



The second in a series of new Proof Presses announced by Challenge Machinery Co. is the Style KE. This model has a 20 in. power ink distributor. Press is made in two sizes: No. 1528 accommodates max. form of 14½ in. by 23½ in. and No. 2028 accommodates max. form of 19½ in. by 23½ in.

THE second of the Challenge new Series K proof presses is the Style KE. This model has a 20 in. power ink distributor which breaks up the ink and distributes it on hand rollers, thus eliminating the hard work of hand rolling and providing evenly inked rollers.

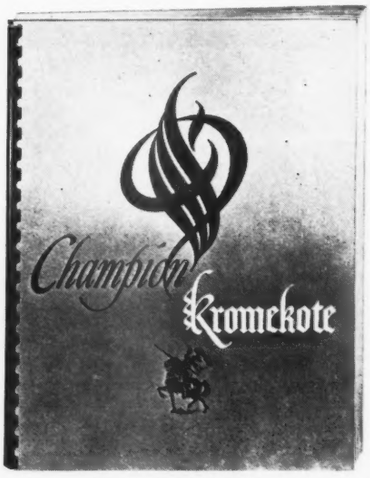
The Challenge Style KE Proof Press is designed like a cylinder press with revolving cylinder and reciprocating bed which rides on anti-friction rollers. Sheets are fed to cylinder grippers and a micrometer side guide. A foot trip prevents offset on the cylinder packing on the return stroke of the press.

The machine has a welded steel stand with shelves and compartments for paper, ink cans, and wipers. The sliding feed board moves away to provide access to the cylinder packing. Standard equipment also includes delivery board, zinc galley plate, cylinder packing, wrenches, and two 8 in. Challenge hand rollers (not cast).

The Style KE proof press is made in two sizes—No. 1528 (max. form, 14½ in. by 23½ in.) and No. 2028 (max. form, 19½ in. by 23½ in.).

Kromkote Book

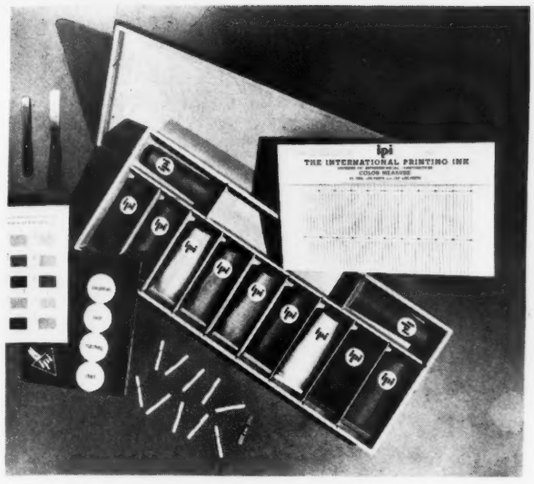
AVAILABLE only through Champion merchants, The Champion Paper and Fibre Co. has issued a 74 page book, size 8½ in. by 11 in. The book is titled simply *Champion Kromekote.* The book is purely a demonstration of the use of Champion Kromekote in the varying weights and sizes. Practical examples of work in plain black and by four-color process letterpress and lithography, as well as other types of color work are presented. In the front of the



book are presented instructions for printing on Kromekote, embossing, uses for covers and postcards, as well as for packaging and labeling. Some of the halftone work is done in screens ranging up to 150. There are single color illustrations, duotones and process, as well as embossing. Special gloss ink usage is demonstrated as well as silver and gold (with and without size) printing. Black and white and color printing on the reverse side of Kromkote cover and postcard stock is demonstrated. The book is plastic bound. Cover design printed in blue and gold ink with self white raised embossing. From the standpoint of the production or mechanical executive, the information about handling Kromkote to secure maximum results is valuable. The demonstrations will also assure the executive that certain types of work can be handled by his pressroom.

Introduces 75 W. Slimline Lamp

A 75 W. T12 Slimline fluorescent lamp which is claimed to have the highest efficiency of any fluorescent lamp ever developed and is expected to supply high levels of illumination more economically, has been announced by Sylvania Electric Products Inc. The lamp, is 1½ in. in diam. and is 96 in. in length. To be available in July in the recently introduced Warmtone color, in 3500 deg. standard white and on request in the 4500 deg. white color, the new lamp is instant-starting, has a single contact base, and contains a special hydrophobic coating for starting under high humidity and sub-normal voltage conditions.

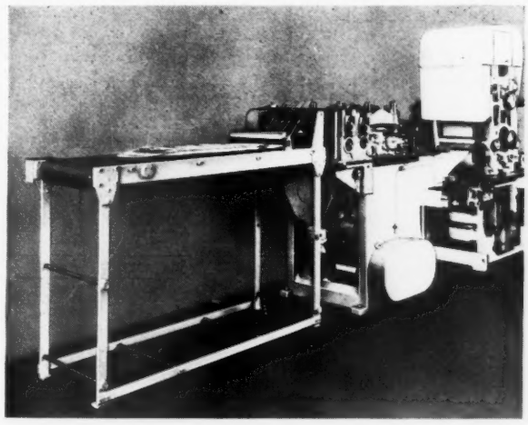


View of IPI's Improved Match-Box. Contents described in accompanying article. New instruction book accompanies the set.

Improved IPI Match-Box

IPI'S Match-Box is again available to commercial printers. This kit provides materials to mix and match over 100 colors and tints. There are 11 tubes of inks and compounds, mixing and measuring slab, two mixing knives, tube rolling keys, six special tube caps and a new printed instruction book and simplified color-matching chart. Color schemes may be selected from the chart by following instructions.

The IPI Match-Box, states sponsor, equips printers with a color service at a cost no more than the ink alone. It is also claimed no special training or color mixing experience is required. Formulas are included to permit accurate color matching in small batches for sample work (and small press runs) or in larger quantities for the commercial shop.



View of Champlain 14 in. Rotary Carton Press Die-Cutting mechanism. Press is available with from one to six rotary printing units. Manufacturer states Press delivers from 13,500 to 60,000 printed carton blanks per hr.

Champlain 14 in. Rotary Carton Press

CARTON blanks may be printed in one run with the Champlain 14 in. Rotary Carton Press. When fed roll stock, this press prints, die-cuts, scores and strips in one operation. The stock can also be tinted or varnished in the same time. The punch uses chase-type steel rule and furniture dies, is adjustable for different stock sizes within the minimum maximum range of 5 in. by 7 in. to 14 in. by 14 in. Manufacturer states that the Champlain Press delivers 60,000 printed carton blanks of a minimum size and 13,500 of the maximum size, per hour.

Die changeover is made as follows: The chase to be removed is unlocked and slid free of the bolster. The new chase is locked into place and the feed length of the reciprocal stroke is adjusted. This adjustment is made by a change of the ratio of eccentric throw to the punch slide mechanism.

The press is available with from one to six rotary printing units—rotogravure, aniline or letterpress. For more information write to the manufacturer—Champlain Company, Inc., or *Printing Equipment Engineer* will gladly pass along your request.

Type-Stik Fonts

A METHOD of using type for headings and sub-headings called *Type-Stik* is announced by Waterman Press. It consists of gummed and perforated sheets imprinted with type face alphabets in various size of upper and lower case, plus numerals, characters and punctuation marks. Various effects such as mixed faces, zig-zags, dimensional headings can be obtained for reproduction or presentations.

Tornado Floor Machines

SPECIAL features incorporated in the newly-designed Tornado Floor Machines for cleaning and polishing floors include placing the control handle in relation to the revolving brush to counterbalance starting and running torque so that these machines have better control and glide across surfaces in an almost automatically self-propelled manner. Brush speed and weight of unit, states manufacturer, insure more thorough cleaning and polishing in far less time. The handle is adjustable in length and angle to fit each individual operator. Handle is removable, and lowers easily for non-spill filling of solution tank and for use under machinery, desks, and other low objects.

The line consists of five models with brush spreads ranging from 12 in. to 20 in. Each model, asserts maker, is powered by the correct size motor to do the most effective job.

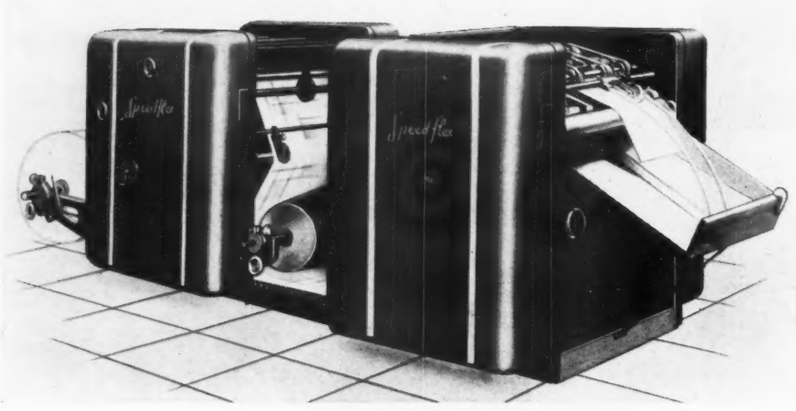
Manufactured by Breuer Electric Mfg. Co. Inquiries will be passed along gladly by *Printing Equipment Engineer*.

Install Proof Press

HOWARD O. BULLARD INC., Typographers at 150 Varick St., New York, N. Y. recently installed a new No. 4T Vandercook Proof Press. On this press are pulled reproduction proofs, as well as transparent cellophane proofs (inked on both sides) especially for lithographic and gravure work. Ralph P. Specce, vice president of Bullard's says: "We have recently had many calls for transparent proofs, and to keep abreast with the latest developments in the field, we have added this service."

Liquid Proving Ink

EZ Liquid Proving Ink, has been put on the market by Zimmer Printers Supply Co., Inc. This ink is claimed to dry very slowly until it comes into contact with the paper then it dries instantaneously. It is asserted the same ink can be used day after day, thus eliminating daily wash-up.



Dutro's Speed-Flex Printing Press prints from roll stock; produces printed sheets max. size of 15½ in. by 17 in. sheeted in the press. Prints from rubber plates. Press can be arranged to perform a number of fabricating operations such as gluing, attaching carbon, sheet, slitting, perforating and numbering. Production speed, states manufacturer, ranges from 15,000 to 20,000 i.p.h. Width of web can be varied from 5 in. to 15½ in. May be used to produce snapout forms, laundry lists, order blanks, deposit slips, letterheads, circulars, package inserts, coupons and business forms. When a unit is added to the standard Speed-Flex press, it can print three colors on one side plus a strike-in or two colors on one side plus a strike-in and one color on reverse side of the stock.

Fast Rubber Plate Press

THE Speed-Flex press, built especially for the use of rubber plates, is capable of multiple operations, it is stated by Orville Dutro & Son. Sponsor states the press is suitable for the production of snapout forms, laundry lists, order blanks, deposit slips, letterheads, circulars, package inserts, coupons, and business forms which come in runs of 5000 or more.

The rubber plates used on this press are vulcanized to a thin sheet of copper or brass and are preregistered to the cylinder.

The Speed-Flex is capable of operating at speeds ranging from 15,000 to 20,000 i.p.h. on a maximum sheet size of 15½ in. by 17 in. The 17 in. dimension is fixed by the circumference of the cylinder, but the width of the web can be varied from 5 in. to 15½ in.

The basic press without additional units is 51 in. high, 40 in. wide and 11 ft. long.

The Speed-Flex press is equipped for cam-operated numbering machines which provide a method of printing a number and a strike-in in a separate color. The strike-in feature enables the operator to handle forms including a great number of changes with minimum difficulty, claims maker. It also provides a rotary perforation and has a pasting unit by means of which a sheet of carbon paper may be glued to the printed form.

An additional printing unit can be furnished which contains two printing cylinders, one of which is reversible, so that the added unit can print two colors on one side of the paper or one color on each side. Punching and cross-perforating devices can be furnished.

For further information, send your request to *Printing Equipment Engineer* who will gladly pass along your request.

Marginator for IBM Machines

A NEW model Marginator (right margin justifier) designed to fit the proportional spacing Executive Model typewriter manufactured by International Business Machines Corp., has been announced by the Marginator Company, making possible the preparation of typewriter composition with even justification of the right-hand margin.

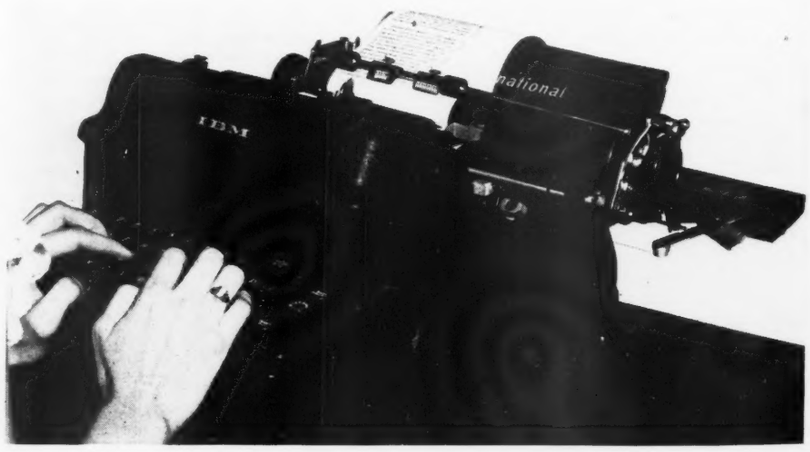
International Business Machine's proportional spacing typewriter makes allowance for characters varying in width, but has no provision for automatic justification of the right margin. With the Marginator attached, automatic justification is added, and the resultant copy can be used for reproduction by any of the duplicating methods, such as mimeograph, hectograph, offset and letterpress printing.

The new model Marginator operates on the same principle as the standard Marginator (formerly called the Edison Margin Justifier.)

The Marginator is a development of John S. Edison, inventor, and is distributed by Marginator Company.

What may be called the "neutral line" in pre-typed matter may be extended by four characters, or else contracted by four characters, which permits a total range of nine letters.

The Marginator may be installed on outstanding typewriters.



On the right-hand side of the carriage can be seen the Marginator attached to IBM Proportional Spacing Typewriter. After pre-typing the copy, the operator can produce even justified (equi-distant) lines on the second typing through the use of this device

Plates for the Graphic Arts

A FOUR-COLOR illustrated booklet, describing the characteristics of Kodak Plates for the Graphic Arts, has been announced by the Eastman Kodak Co. The booklet provides examples of the type of work which may be done with the different plates in the Kodak line. Included among the examples are plates made from color transparencies, color prints, and the black-printer negatives from artwork prepared with Kodak Fluorescent Water Colors. Brief, clear descriptions outline the special characteristics of each type of plate. Development latitude and dot-etching characteristics are given for the guidance of the photomechanical operator in selecting the proper plate for his specific needs. The booklet, *Kodak Plates for the Graphic Arts*, is available without charge upon request to the Graphic Arts Sales Division, Eastman Kodak Co., or *Printing Equipment Engineer* will gladly forward your request.

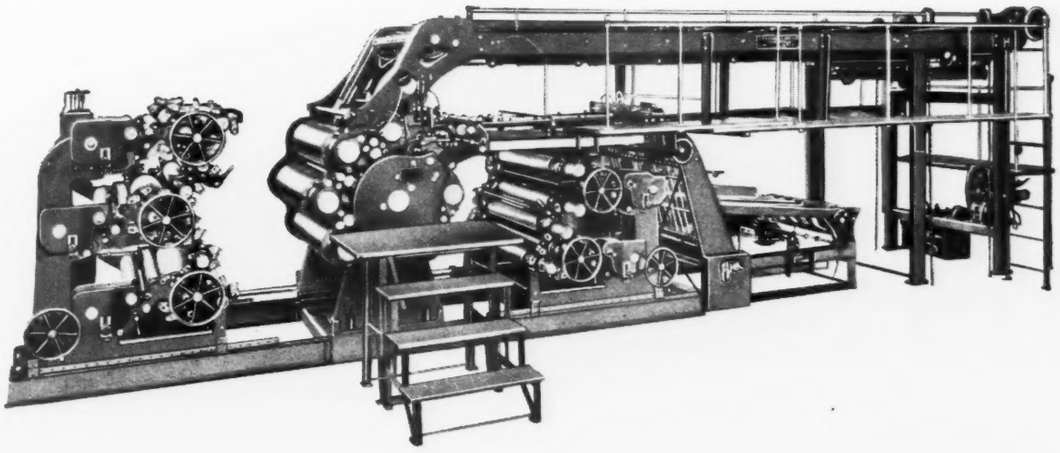
Ironbound Truck Bulletin

IRONBOUND Box & Lumber Co. has issued a four page illustrated bulletin. In the bulletin is described the Ironbound Rol Truk. Truck is hand-operated and is designed to transport paper rolls, barrels, drums, kegs, reels, coils, etc. The distinguishing feature of the truck is a locking arm which is lowered over the top of the roll or other article, locking it securely in place to prevent rolling or sliding from the truck during trans-

FIVE COLOR PRINTING

This Cottrell five-color sheet fed rotary press enjoys a world-wide reputation for producing printing of outstanding quality at high speeds.

The 36″ x 48″ Cottrell five-color rotary has a printing speed up to 5500 sheets per hour and the 48″ x 71″ has a printing speed up to 4500 sheets per hour . . . production means profit.

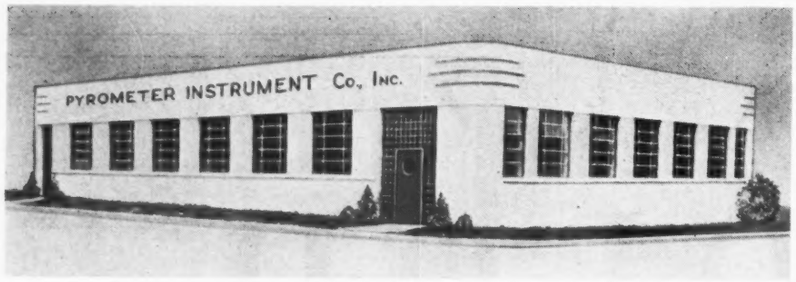


Cottrell

C. B. COTTRELL & SONS CO.

Westerly, Rhode Island

New York: 25 E. 26th St. • Clayburn Division: 3713 N. Humboldt Ave., Milwaukee, Wis.
Chicago: Daily News Bldg., 400 W. Madison St. • Smyth-Horne, Ltd., 13 Bedford Row, London W.C. 1, Eng.



Pyrometer Instrument Co. in New Home—The Pyrometer Instrument Co., Inc., now occupies its new home in Bergenfield, N. J. The firm moved from its former address in New York. The one-story stone and concrete building contains 10,000 sq. ft. of floor space and is situated on 1 a. of ground. The building is air conditioned, fluorescent lights have been installed and the floor is cement with a hardened surface applied on top. The firm pyrometers of many types, some of which are used in the Graphic Arts industries for heat indications of molten type and plate metals.

port. The truck cradle is heavy steel plate and is operated by one man. Made in light and heavy duty models.

Aligns Lines With First Typing

A METHOD of producing typewritten copy with margins aligned automatically in the first typing has been announced. Joseph Spielvogel of Newark, N. J., utilizes the present typewriter tabular key as a justifier and adds a reel of special paper tape.

According to the inventor, the Vogel-Reel permits the typist to produce automatically aligned columns on a typewriter without any preliminary copy, calculation, or other preparatory steps. The finished copy is intended only for reproduction by photo-engraving, photo-offset, gravure, facsimile radio, and other processes used in the production of newspapers, magazines, books, and other printed matter. The inventor says that, with his reel, electrically-operated typewriters, especially those having printing type and proportional spacing for various letter widths, can be employed.

In patents already granted Spielvogel's invention is described as comprising a reel of paper tape, made stretchable by fine creping, and is calendered to provide a smooth typing surface, and means for assembling lines typed on the tape, one over the other, like on a telegram, after being stretched automatically to a set length by the typewriter carriage. The reel is mounted parallel with the typewriter ribbon, and the tape is fed past the typing point by a left margin gripper on the carriage. When no more words or divisions will fit on the line, depressing a tabular key causes a stationary right margin tape-gripper to close while the carriage slides to its predetermined stop, thereby stretching the line to its desired equal width. A power-actuated pressure bar, attached to the carriage, simultaneously cuts off and adheres the finished line to a paper galley having a specially treated adhering surface. When the "Carriage Return" key is pressed, the typed line moves up a notch with the galley, while the left margin gripper picks up fresh tape for the next line. Since the tape is stretchable in one direction only, the height of letters remains unchanged. Columns of various widths can be set. Lines in which an error is discovered before completion can be torn off and typed over.

A company is being organized to manufacture the Vogel-Reel under the direction of Joseph J. Fiske, of Jersey City, N. J., a newspaper executive.

Cutter Bulletin

FEATURING its hydraulic clamp cutters in 46 in. and 52 in. sizes, a catalog has been prepared by E. P. Lawson Co., Inc. Catalog is a six-page, two-color brochure in which are enumerated 12 features. Illustrated is the hydraulic clamp mechanism, which clamps stock with varying pressure for different stocks. The dial on the face of the cutter shows the amount of pressure. Other features are illustrated. Copies may be secured by addressing E. P. Lawson Co., Inc., direct or by sending your request to *Printing Equipment Engineer*.

Jig Saw Attachment for Drill Press

A JIG saw attachment which is mounted on a drill press is designed for jig sawing wood, plastic, light metals, and leather. This unit was recently announced by the LaMonte Mfg. Co. The LaMonte Jig Saw attachment obtains double duty from a drill press. No additional motor space required. Ball bearings and Oilite are used to insure smooth operation. All moving parts are packed in grease, hermetically sealed to provide lubrication and keep out dirt. This unit is rust-proofed and polished to a mirror finish.

The LaMonte Jig Saw will cut in any direction with no limitation as the blade can be mounted in all four positions. The 3 min. installation consists of gripping the power unit in the chuck, and fastening the work table to the drill press with C clamps. Ordinary jig saw blades are used.

Further information may be secured by addressing your request to LaMonte Mfg. Co., in care of *Printing Equipment Engineer*.

Metal Temperature Control

AN electronic metal-temperature control has been announced by Mergenthaler Linotype Co. The bulletin consists of 4 pages, 8½ in. by 11 in. Description of operation of the electronic control is presented. Split-degree heat control for the metal pot is claimed. Metal pot mouthpiece temperature control is incorporated in the device.

Watervliet Slide-Show

A slide-show, *The Manufacture of Coated Book Papers*, has been completed by the Watervliet Paper Co., Watervliet, Mich. The slide-show consists of 75 slides in full color and takes the audience on a tour of the Watervliet mills. A number of things shown in the slides ordinarily would not be seen by a visitor touring the mills, such as color photo-micrographs of book paper fibre, beaters, jordans, and mill flow diagrams, etc. Showings are being offered to Graphic Arts organizations in the midwest. Descriptive comment accompanying the slides is given by a mill representative.

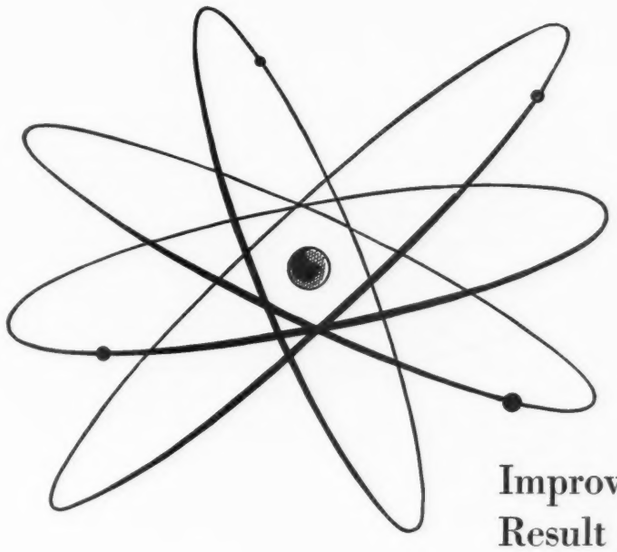
Moves N. Y. Office

The Miehle Printing Press & Mfg. Co. has announced removal of its New York office to 219 East 44th St., New York 17, N. Y. Telephone No. is MUrray Hill 7-8710.

MERGENTHALER LINOTYPE COMPANY ANNOUNCES FIRST

ELECTRONIC

Metal-Temperature Control



Improved Printing Surfaces and Slugs Result from Split-Degree Heat Control

Electronic Metal-Temperature Control—another Linotype *first*—will soon be available to give split-degree control for Linotype metal pots. And only Linotype, among slug machines, can now offer this production aid.

This new control has no moving parts! It operates by means of a simple temperature-sensing unit and an industrial-type electron tube. Variations of 0.4 degree F. cause the heater current to be switched on or off.

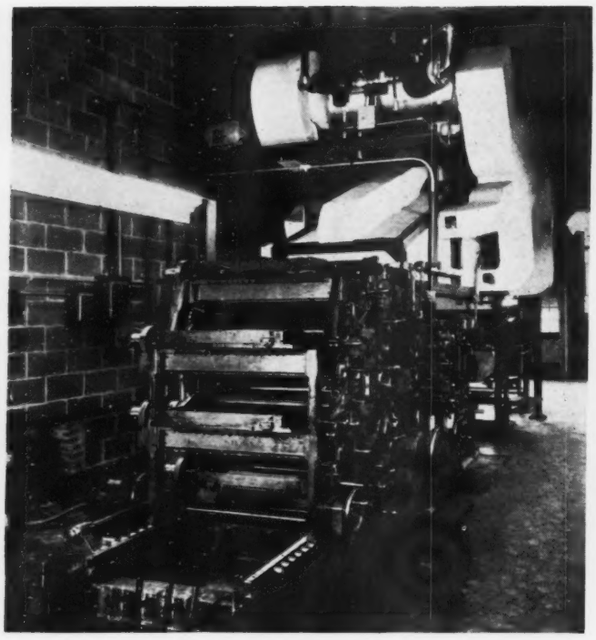
Linotype Electronic Metal-Temperature Control has been tested under actual production conditions for many months by the Linotype Research Laboratories. Soon it will be available for use on new Linotypes or on machines that are now in service.

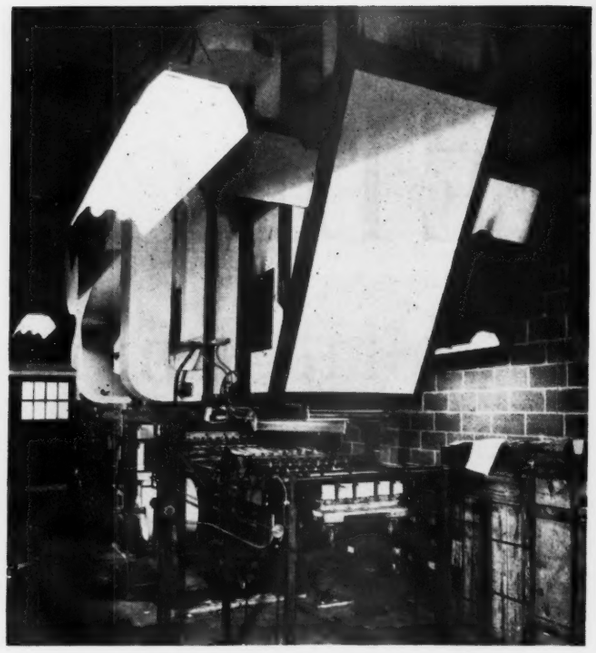
If your work requires precise temperature control, you will need this new Linotype production aid. Complete information will be released soon.

TRADE LINOTYPE MARK

Set in Linotype Bodoni Family

LINOTYPE · 29 Ryerson Street, Brooklyn 5, N. Y.





At left is a Hess & Barker Hi-Speed Rotary Press in plant of the Curtiss Way Corp., Meriden, Conn. for printing slick-stock comic book covers. Shown is duct work and one of the gas burners for hot air convection drying of the printed web. One side of the web is printed four up on 22 in. web four colors. The other side is printed in one color. One side of the web is dried by passing it through an oven; the other side is dried in similar manner. Press is fed from roll stock, but is sheeted at delivery end of press. Press is said to have 9000 sheets per hr.
At right is shown the sheet delivery on Hess & Barker rotary press. The hot air oven through which the web makes two passes is shown. As has been stated previously, the web is dried after printing on one side, before the other side is printed, and then the printed other side is dried before sheeting.

Comics Are Big Business

By ARTHUR Q. SMITH*

**American Gas Association New York, N. Y.*

DAREDEVIL, Superman, Margie, Freckels, the Fighting Yank, and scores of other characters have become household by-words with the young fry of our country, up to and including the bobby soxers. Concrete evidence of this may be found in the six hundred million dimes that are passed across newsstands annually for what has become, in a short space of time, a piece of big business in the United States—comic books. Starting out as an elaboration of the Sunday newspaper comic sections, a real business of developing new characters, situations and continuing plots has grown into book form with sales of this 10c item reaching 60 million copies each month. Millions of youngsters consider these comic books a "must", and eagerly await each new edition so that the exploits of their favorite characters may be followed. Such books as *Horatio Alger* have given way to these newly created personalities.

Popular comic books are the only publications that have a trade-in value. The youthful readers, by various and devious means, manage to get hold of a quantity of these books and trade in several of them for a new one. It has been stated by one of the advertisers that a particular comic book having 1 million circulation is actually read by 5 million.

Several companies are engaged in the production of these books, which has become a highly specialized segment of the printing industry. One of these companies, which prints approximately one-sixth of the national output, is the Curtiss Way Corp., Meriden, Conn. This company has been in existence for over 50 years, and has had the names of Curtiss and Way in various corporate titles. It is how a subsidiary of Eastern Color Printing Co., which was the first organization to reprint Sunday comics, thus establishing the comic book business. The present set-up is that Eastern Color prints the insides of the comic books, and Curtiss Way prints the covers and does the binding. It is with the printing of these covers that their story is concerned. The contents of the comic books are four-color on newsprint, and the covers are on slick stock—four-color on one side; one-color on the other.

More and more, it has become necessary to lower production printing costs. This is especially true in comic books, which sell for a low unit price. One method of reducing these costs has been to materially increase press speeds. Recognizing this, a number of press manufacturers are now building really high speed presses to meet this situation. In order to print at high speeds, it was found necessary to incorporate in the basic press design, ways and means of rapid ink drying. A solution of this problem has been to install a gas heating medium as a part of the press. A long-established principle of hot air convection drying, commonly used in industrial processing, has been adapted to printing.

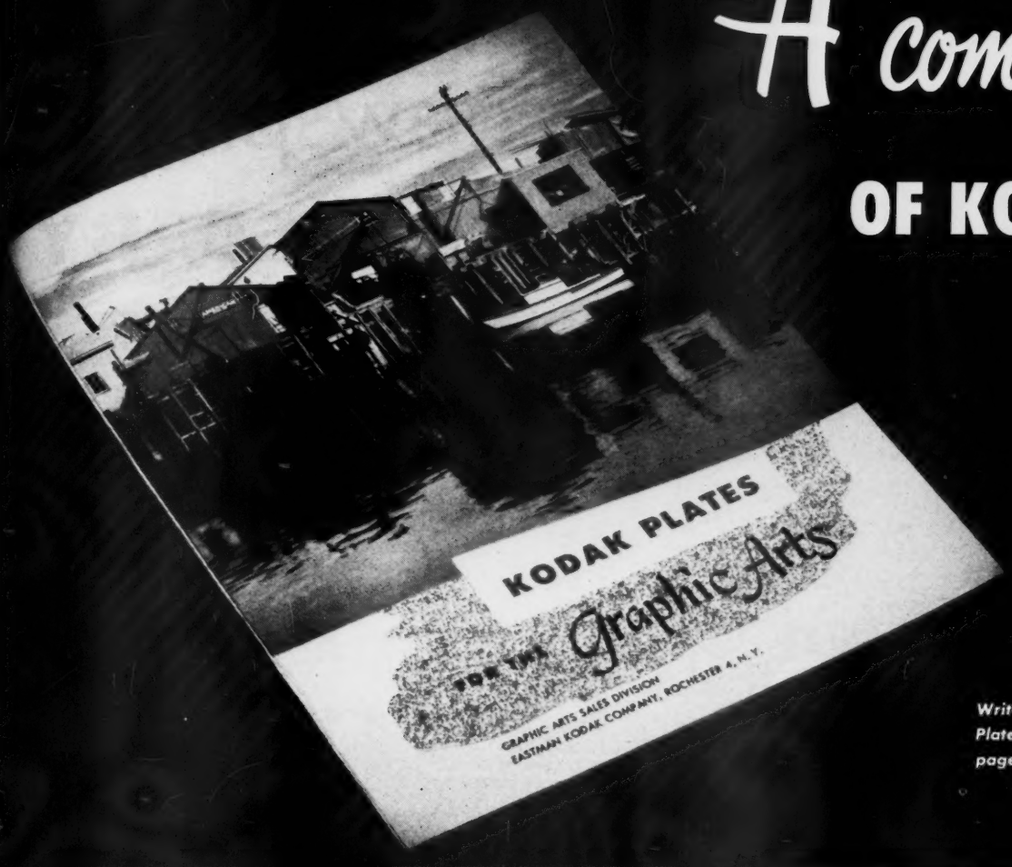
To supplement its large battery of flat-bed presses, which could not keep up with the ever-increasing demand for comic books, Curtiss Way recently installed a Hess & Barker 4 to 6-color Hi-speed Rotary Press. With the present equipment installed, a schedule of 10 million comic book covers per month is met. In order to print on slick stock on this new press, which will deliver 9000 sheets per hour, a drying system is installed as an integral part of the press. This is a direct gas-fired forced convection oven, through which the web makes

(Continued on Page 116)

A complete line

OF KODAK PLATES

FOR YOUR MOST CRITICAL WORK



Write today for your copy of "Kodak Plates for the Graphic Arts," a 16-page booklet, illustrated in full color.

Wide development latitude.

Superior dot quality.

Excellent dot-etching properties.

Holds absolute size.

Making a balanced set of color separations is a tough job. It requires camera craftsmanship, the etching artist's skill, and dependable photographic materials of superior quality.

In producing better four-color and black-and-white reproductions, the wide variety of Kodak plates offers exceptional assistance. Dependable uniformity of physical and photographic characteristics, selected glass of the right optical properties, a wide range of emulsions, antihalation backing, exceptional dot-etching ability—are a few of the properties of the complete line of Kodak plates for the Graphic Arts. These plates provide both cameraman and dot-etcher with the basis for standardized production under commercial shop conditions.

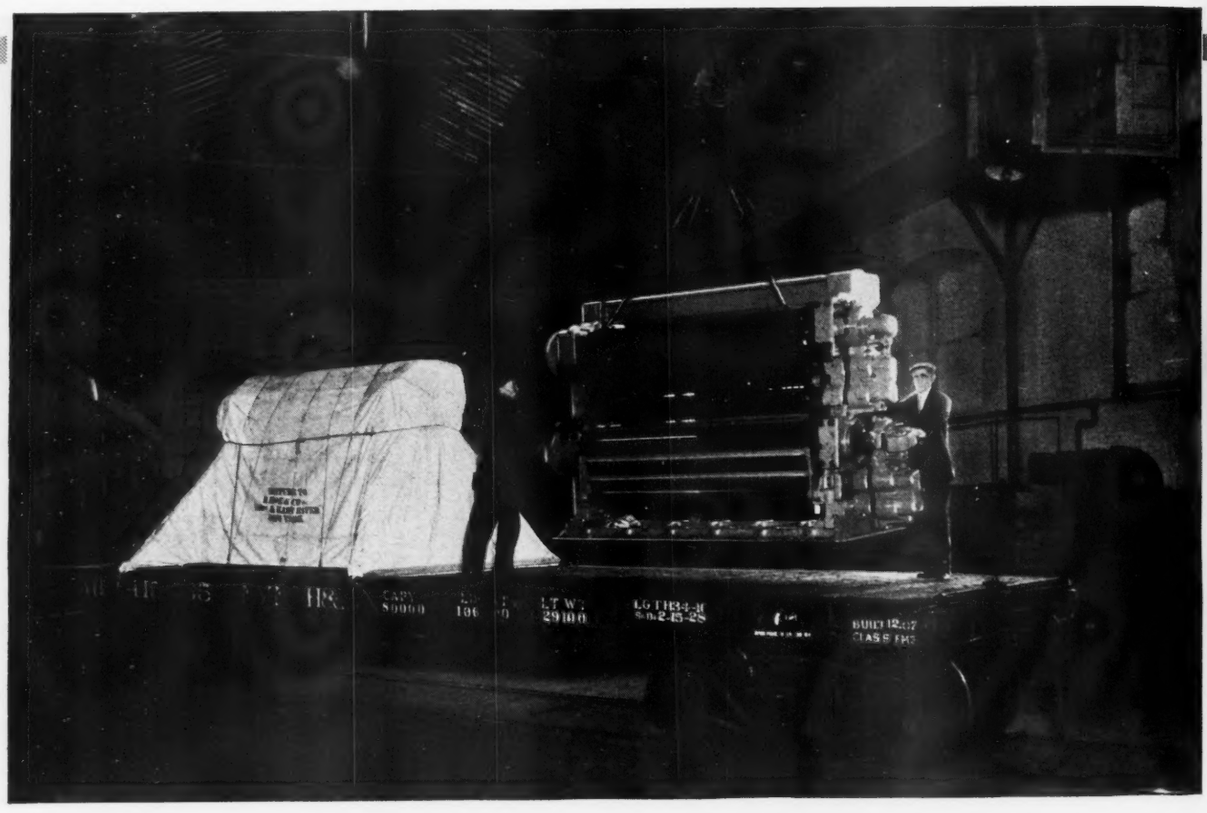
A new Kodak Graphic Arts publication, "Kodak Plates for the Graphic Arts," printed in full color, giving detailed information about the wide variety of Kodak plates is now available. Ask your Kodak Graphic Arts dealer for your free copy today, or write directly to the Graphic Arts Sales Division, Eastman Kodak Company, Rochester 4, N. Y.

Graphic Arts Division EASTMAN KODAK COMPANY Rochester 4, N. Y.

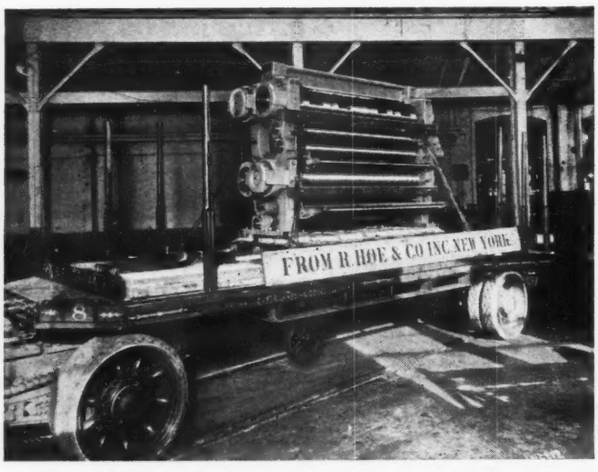
"Kodak" is a trade-mark

Kodak

Shipping newspaper
PIONEERED BY



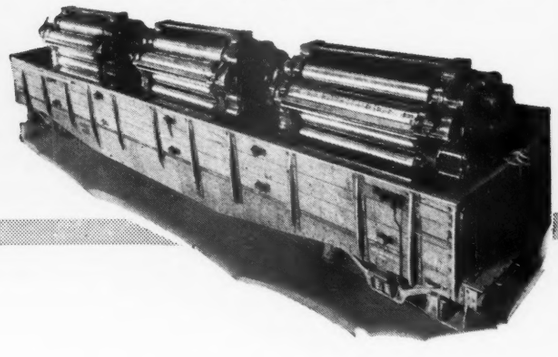
1930 One of the 72 complete units and 17 folders for the Chicago Daily News being loaded on railroad car.



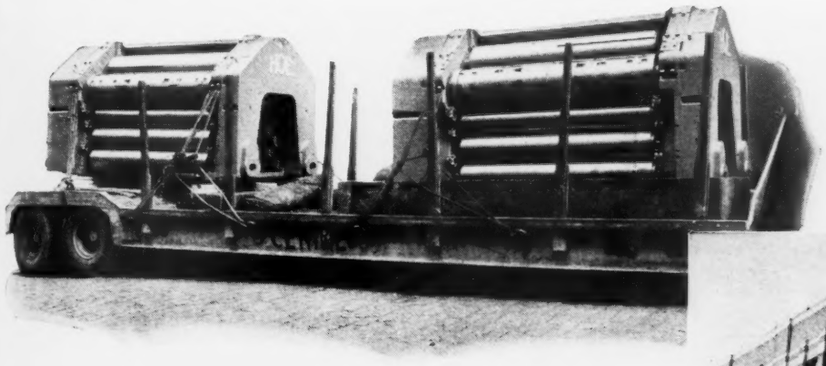
1930 One of 36 complete units and 12 folders for the New York American loaded on truck.

1934

Three units, of press consisting of six units and two folders, loaded on railroad car for shipment to Grit Publishing Company, Williamsport, Penna.



press units intact
HOE IN 1930



1947
Two of ten units and two folders for the Christian Science Publishing Company loaded on truck.

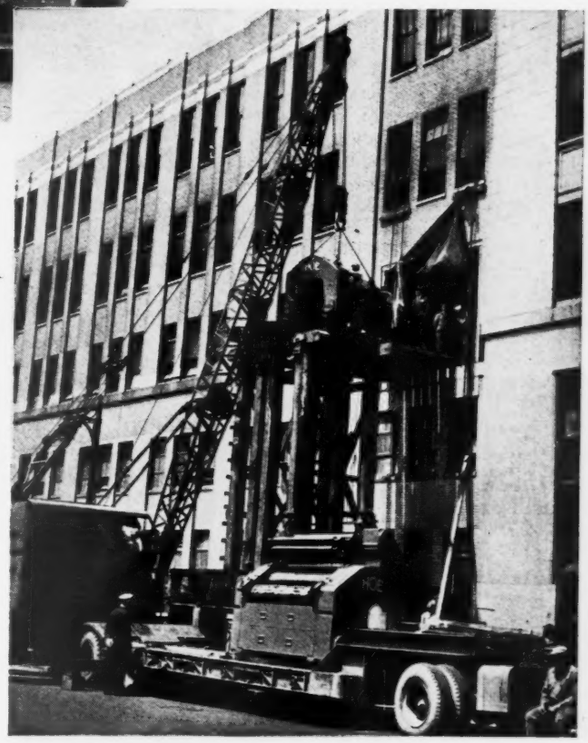
Not only has Hoe been the leader in developing newspaper printing press designs and methods of construction, but also in devising the most efficient ways of shipping and installing presses.

Over seventeen years ago Hoe instituted the practice of shipping completely assembled newspaper press units on specially constructed bedplates.

By this method the publisher secures the benefit of the many definite advantages of having Hoe press units and folders completely assembled and tested in the Hoe shops, through the use of special precision equipment that would not be available if the assembling were done in the customer's pressroom.

In addition to the assurance of absolutely smooth and accurate performance that this gives the newspaper publisher, the shipment of each unit intact also minimizes installation expense and shortens the time required to get the press on production.

A few examples of this method of shipping Hoe press units are shown in the accompanying pictures.



1948 New Color-Convertible Units being installed at The Philadelphia Inquirer. The installation will consist of 44 units and 10 folders.

R. HOE & CO., INC.

910 East 138th Street, New York 54, N. Y.
BRANCHES: BOSTON • CHICAGO • SAN FRANCISCO

SCHEDULE OF ADVERTISEMENTS

THIS SHEET IS NOT TO LEAVE THE COMPOSING ROOM UNTIL ALL PROOFS LISTED ARE PULLED, AND ALL OTHER INSTRUCTIONS HAVE BEEN PROPERLY ATTENDED TO

Date _____

Sheets _____

Sheet No. _____

Name of Advertisement	Rack Letter	Insert'n Date	Laid out by	Size	Adv. Set By	Position of Ad	Store Proofs Required	Proofs to Adv. Dept.	Ad. OK	Pulled By	Deliver'd By	Remarks

Fig. 2.—Reduced approx. one-half size, this is the advertising copy scheduling blank used in the plant of the Harrisburg (Pa.) *Telegraph*. In the original, which measures 16 in. wide by 11 in. high, the downrules and type matter are printed in black ink, while the horizontal rules are in red ink. This Schedule of Advertisements is kept near the ad foreman's desk. Its use fits in nicely with the ad copy routing schedule discussed in the accompanying article.

Time-Saving Assembly for Newspaper Ad Copy

IN the average newspaper composing room where most pieces of advertising copy must go through the hands of several compositors before the elements for the advertisement are ready to be assembled in the ad alley, there are lots of ways for time to be lost. These time leaks have been successfully plugged by L. H. Butler, Superintendent in the composing room of the Harrisburg (Pa.) *Telegraph*.

The system installed by Mr. Butler starts with the layout man. Here the ad copy is marked up for composition. In addition, a bin number is rubber-stamped on each piece of copy. If there are stereo mats or cuts with the copy these too, are rubber-stamped with the same bin number. In case the ad copy is large and must be cut into several takes, each take is rubber-stamped with the same bin number. Thus when the copy leaves the layout man and goes to the composing room every piece of the copy as well as all mats and cuts are stamped with a bin number. The bin number will be explained shortly.

In addition, a checked form (Fig. 2) goes with each piece of copy indicating what machines in the composing room the copy must go to for setting. If there is sufficient room on the piece of ad copy this form is rubber-stamped onto the copy. If there isn't sufficient room, then a printed copy of the form is pasted to the piece of ad copy. This form contains a line for each of the 13 line-composing machines and another line for the Ludlow. Opposite the number of each machine there is listed the face or faces on that machine, each face being listed on a separate line. There is a space before each of these listings so that the layout man can check what face on each machine is to be set.

The different machine operators go to the ad foreman's desk and look over the pieces. Each ad operator takes those that call for setting faces on his machine. He then sets his part of the ad copy. When he has finished setting his part of the copy, he crosses off the checked part on the form that was either rubber-stamped or pasted to the ad copy. He then takes the copy and slugs to the assembly rack indicated on the ad copy.

The assembly rack is a double-deck rack with each shelf divided into square spaces. Some of the larger square spaces are divided into four smaller square spaces. Each of these larger squares is lettered with a single letter beginning with the letter A and so on through the alphabet so far as necessary. All four of each of the smaller squares that have been made out of a larger square by dividing it into four parts is lettered with the same letter followed by a number from 1 to 4, one number for each part. Thus there

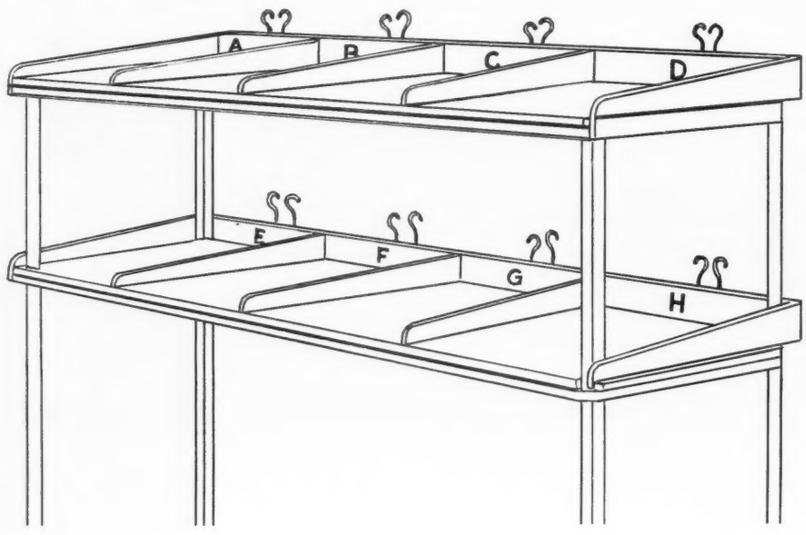


Fig. 3. — Advertising copy assembly rack used in the composing room of the Harrisburg (Pa.) *Telegraph*. Each of the two shelves is divided into four compartments. Each is labeled with a capital letter from A through H. A piece of ad copy may have to be set on two or three machines. As each operator finishes setting the type for the ad on his machine he brings copy and slugs to this assembly rack. The type composition system is automatic, as is explained in the accompanying article.

GEO. H. MORRILL
GEO. H. MORRILL
GEO. H. MORRILL
GEO. H. MORRILL
GEO. H. MORRILL
GEO. H. MORRILL
That's MORRILL'S
INK-MAKING CAPACITY
Back of every pound of MORRILL ink are those valued ingredients — quality and experience gained from years of research and manufacture. And all of this in behalf of pressmen, so they may have newspaper inks that are uniform in consistency and performance.
The sale of MORRILL ink is not considered complete until it is running satisfactorily on the press. Every MORRILL representative is a trained ink man.
MORRILL's ink-making capacity is your guarantee of a constant ink supply so that your production schedule may be maintained without interruption.
GEO. H. MORRILL
GENERAL PRINTING INK DIVISION
100 SIXTH AVENUE, NEW YORK 13, N. Y.
NEW YORK • BOSTON • CHICAGO • DETROIT • MINNEAPOLIS • ST. LOUIS
FORT WORTH • SAN FRANCISCO • LOS ANGELES • SEATTLE
Sun
CHEMICAL
CORPORATION
WORLD'S LARGEST MANUFACTURER OF NEWSPAPER INKS

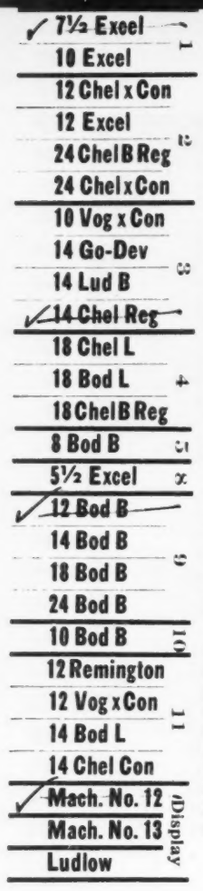


Fig. 1.—Reproduction of advertising composition specification ticket used in the ad alley of the Harrisburg (Pa.) *Telegraph*. If there is room enough on the ad copy, a stamp is used to print this form; if the copy margins do not permit, the layout man pastes a ticket containing this form to the ad copy. The vertical row of figures at the right indicates the machine. At the left of the machine number within the same box are enumerated the point sizes and style of type faces carried in the magazines.

The boxes at extreme left are for use by the layout man in indicating by check mark, that some of the copy is to be set on certain machines as indicated by the pencil check mark placed within the extreme left hand boxes.

After the operator has set the type matter as indicated, he (or they) draw horizontal pencil lines through the name of the type face to indicate that the faces marked have been set. The same copy containing several styles and/or sizes of type faces may be handled by more than one operator on several machines.

are spaces lettered A, B, C and so on, and others lettered H1, H2, H3 and H4 and so on.

As each operator finishes setting his part of the ad on the machine on which he works he takes the type he has just set and puts it in the assembly rack section that is lettered the same as the letter on the ad copy. The stereotyper, who has been given a mat casts a plate. When it is finished he, too, puts it in the assembly rack section that bears the same letter as has been stamped on the mat. Thus the different stages of ad-setting are carried on. In each instance, the resulting type matter is put in the proper assembly bin.

When the entire advertisement has been set, the ad copy is put on the ad bank desk, which indicates that all type matter for that ad has been set. If the shop is very busy, the last machine man working on the ad will go to the assembly rack and pick up all the material in the assembly rack bin of the proper number, and take it together with the ad copy, to the ad bank desk. If the composing room isn't busy then just the ad copy is put on the ad bank desk. In that case, the ad makeup man will take the copy and go to the proper bin in the assembly rack and pick up the type matter.

The type matter for the advertisement is then assembled, a proof is pulled and read. If there are corrections, the corrected proof together with the ad copy are put on the hook of the machine that must do the resetting and the system operates as before.

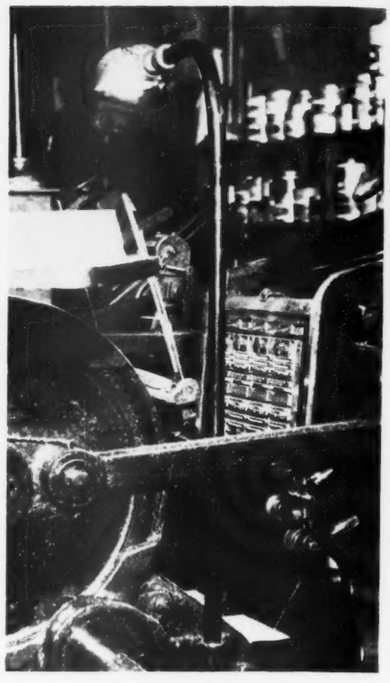
A schedule of advertisements (Fig. 1) is also made out and hangs near the layout man's desk. All needed data is indicated on this schedule, including the letter in the assembly rack assigned to each piece of ad copy. With the aid of this schedule, it is possible to follow all pieces of ad copy through the shop for any given day.

Relocates Lamps Over the Jobbers

THE custom of locating lights over jobbers by suspending them from the ceiling did not appeal to C. Sumpter Layne, owner of the Service Printing Co., 104 9th St., Lynchburg, Va., as being any too good from a practical standpoint. Accordingly, he devised a new way to supply the lights which has proved to be far more efficient.

Conduits were run from the electric outlet on the side wall to the presses and then a goose neck fixture was run up the side of each jobber with the neck proper placed over the platen but sufficiently high to be out of the way in placing forms in the press and making ready. An individual key switch on each socket makes it possible to turn on and off the light from the press.

When the light is on it illuminates the platen directly. It is reported that not only has this arrangement greatly added to the efficiency when working at the jobbers but it has effected a worth while saving in electrical consumption.

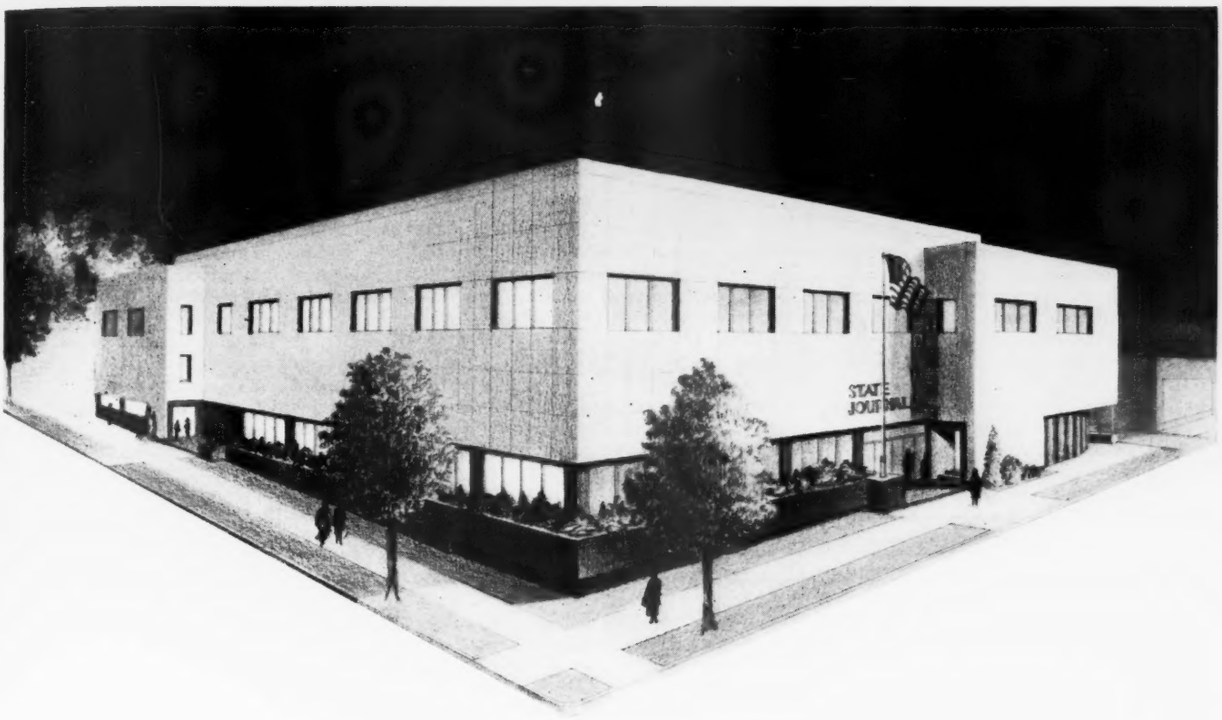


View in one-floor plant of the Dallas (Tex.) *Wall Street Journal*.—The production equipment (composing, stereotype, mailing and paper storage are all located in an open-floor area measuring approx. 8000 sq. ft. The entire mechanical department may be seen from one point. Lighting facilities consist of large windows and new-type fluorescent tubes in high-mounted fixtures. Lighting on the makeup tables is 80 ft. c. Jesse James is composing room foreman; John A. Ashmore, stereotype foreman and Rube Zainfield is pressroom foreman.

The *Journal* owns the mechanical equipment in the plant, but has a contract with Jaggars-Chiles-Stovall, Dallas typesetting firm, whereby the Dallas company operates the mechanical department for the *Journal* under the direction of T. L. Stovall. Jaggars-Chiles-Stovall also sets the composition for the advertisements in the *Journal*.

Principal equipment consists of nine Intertypes, one of which is used for headsetting; Hammond saw and Vandercook page proof press; a Duplex mat roller, Sta-Hi Former; a Duplex Tubular Press with reversible cylinders for color (made by Duplex Press Div. of Goss Printing Press Co.)

The building is so constructed that a second story can be added over the office section for expansion of the editorial and business staffs.



There are Mr. Blandings in the printing field, too

Most of us have read the book or seen the movie, "Mr. Blandings Builds His Dream House." In case you haven't, briefly it's the story of a layman who bought an old home and tried to make a dream house out of it. In the end, it cost him more than a new house.

There are many Mr. Blandings in the printing field, too—successful newspaper publishers, printing plant owners who, in building or remodeling a dream printing plant, end up in a sad predicament. Just as Mr. Blandings would have done well to have investigated before starting his new home, so too, printing plant executives, front office and back, would do well to get the best of advice while the building is in the "preliminary thinking" stage.

Our representative, J. B. Swift, will attend the A.N.P.A. Mechanical Conference, registering at the Roosevelt Hotel.

Such advice is available to all. Morton L. Pereira & Associates, with 30 years experience in newspaper and commercial printing plant engineering, can offer inestimable help on new plants or remodeling of old plants. Whether the work is only a preliminary survey or the design of a complete plant, this organization of engineers, experienced in actual production work in newspaper and commercial plants, can design "your production" first and then build a building around it if desired. We suggest a discussion of your contemplated program at your convenience without any obligation.

MORTON L. PEREIRA & ASSOCIATES

Engineers • *Architects*

100 WEST MONROE BUILDING CHICAGO 3, ILLINOIS

A Piece of Stove Pipe Improves Perforation Job

By DR. RUSSELL RAYMOND VOORHEES

IN RUNNING a combination printing and perforation job on a Miller High Speed Press, type matter set near the perforating rules often doesn't print as distinctly as the rest of the type matter. R. L. McGee, pressman with the Mutual Press, Inc., 60 9th St., Lynchburg, Va., uses a section of stove pipe to permit type near the rules to print fully as good as the balance of the form.

Mr. McGee takes a piece of stove pipe of the same length as the width of the tympan paper. He slits this stove pipe lengthwise and then bends over about 1½ in. along one of the slit edges. He then punches holes in this bent-over flange to correspond to the hooks on the cylinder provided for the hooking on of the tympan paper.

This piece of stove pipe is then placed right next to the cylinder, fastening it securely in place by means of the hooks. Next, three sheets of packing are put over the stove pipe and on top of this the tympan paper is fastened securely in place.

An impression of the form is made on the tympan paper and the places where the perforation rules strike are cut out down to the stove pipe. The job is then ready to run. By making ready on the cylinder in this way the perforation rules work against the metal stove pipe and thus prevent type matter located near the rules not printing well.

The reason a piece of stove pipe is used is because it is curved just about right to go over a Miller cylinder. However, any piece of sheet metal may be used although it will be found to be a bit difficult to get a perfect curve on it without the aid of machinery designed for curving sheet metal.

Mr. McGee has run over 200,000 impressions with the same packing and tympan paper and at the end of the run the makeready was good for many more.

Conference Dates *(with organization names and principal officers)*

American Photo-Engravers Association — Hotel Statler, Cleveland, Oct. 7, 8 and 9. Frank J. Schreiber, Commissioner, 166 W. Van Buren St., Chicago 4, Ill.

ANPA Mechanical Conference — William Penn Hotel, Pittsburgh, Pa., July 19, 20 and 21, 1948. J. L. Stackhouse, Chairman, Easton, (Pa.) *Express;* Walter E. Wines, Manager, ANPA Mechanical Dept. 370 Lexington Ave., New York 17, N. Y.

Great Lakes Newspaper Mechanical Conference—Gibson Hotel, Cincinnati, January 16, 17, 18, 1949. President C. M. Kirk, Stereotype Supt., Detroit *News*; Secretary Al P. Oberg, Composing Room Supt., Flint (Mich.) *Journal.*

Illinois Newspaper Mechanical Conference — Faust Hotel, Rockford, Ill., Saturday and Sunday, September 25 and 26, 1948. President, Earl Anderson, Supt., Rockford Consolidated Newspapers, Rockford, Ill. Secretary, Howard Colton, *Daily Pantagraph,* Bloomington, Ill.

International Association of Printing House Craftsmen —Hotel Cleveland, Cleveland, August 8, 9, 10, 11, 1948. President, A. Gordon Ruiter, Supt., Forbes Lithograph Mfg. Co., P. O. Box 513, Boston, Mass. Secretary, Pearl E. Oldt, 18 East Fourth St., Cincinnati 2, Ohio.

International Typographic Composition Association—Hotel Nicollet, Minneapolis, Minn., September 16, 17, 18, 1948. Frank M. Sherman, Executive-Secretary, 1015 Chestnut St., Philadelphia 7, Pa.

Iowa Daily Newspaper Mechanical Conference— 1949 conference will be held in Mason City, Ia. Hotel and dates to be announced later. President, Ken I. Waughtal, Kayenay Engraving Co., Mason City, Ia.; Secretary, Paul F. Kamler, Mechanical Supt., Clinto (Ia.) *Herald.*

Lithographers National Association — Greenbrier Hotel, White Sulphur Springs., W. Va., July 21, 22, 23 and 24, 1948. W. Floyd Maxwell, Executive Director, 420 Lexington Ave., New York 17, N. Y.

Missouri Newspaper Mechanical Conference — Tiger Hotel, Columbia, Mo., September 11 and 12, 1948. President Beryl A. Troutman, *Courier-Post*, Hannibal, Mo., Secretary-Treasurer O. K. Hammitt, *Monitor-Index*, Moberly, Mo.

National Association of Litho Clubs — Washington, D. C., April 29-30, 1949. President, Albert Tucker, Sauls Lithograph Co., Washington, D. C.; Secretary William J. Stevens, 1776 Broadway, New York 19, N. Y.

National Association of Photo Lithographers — Netherland-Plaza Hotel, Cincinnati, Ohio, Sept. 15, 16, 17, 18, 1948. Walter Soderstrom, Executive Secretary, 1776 Broadway, New York 19, N. Y.

National Graphic Arts Education Association — Hotel Pennsylvania, New York, N. Y., June 21, 22 and 23, 1948. Byron G. Culver, President; Fred J. Hartman, Educational Director, 719 Fifteenth St., N. W., Washington 5, D. C.

National Graphic Arts Exposition—International Amphitheatre, Chicago, September 24 to October 7, 1950. National Graphic Arts Exposition, Inc., A. E. Giegengack, President. Fred W. Hoch, Secretary, 461 Eighth Ave., New York 1, N. Y.

National Printing Equipment Association, Inc. — Edgewater Beach Hotel, Chicago, Ill., October 20, 21 and 23, 1948. James E. Bennet, Secretary, 140 Nassau St., New York 7, N. Y.

New England Mechanical Conference — Hotel Statler, Boston, Oct. 23 and 24, 1948. President, Wm. H. Porter, Mech. Supt., New Haven (Conn.) *Register.* Secretary-Treasurer, Walter C. Crighton, Comp. Room Supt., New London (Conn.) *Day.*

New Jersey Press Association Mechanical Conference —1948 Conference to have been held in Atlantic City, N. J. in June has been cancelled because of inability to secure hotel reservations. President Neal E. Dyer, Mechanical Supt., Camden (N. J.) *Courier-Post.*

Northwest Mechanical Conference — Hotel Radisson, Minneapolis, Minn., February 12, 13, 14, 1949. President, Chas. R. McGuire, Asst. Mechanical Supt., Minneapolis (Minn.) *Star* and *Tribune;* Secretary-Treasurer, Henry Magnus, Machinist, Minneapolis (Minn.) *Daily Times.*

Pacific Mechanical Conference — Roosevelt Hotel, Hollywood, Calif., May 13, 14, 15, 1949. President, Harold Winn, Hollywood *Citizen-News;* Secretary for the North, Edw. N. Conley, color press foreman, San Francisco *Chronicle;* Secretary for the South, Fred J. Moyer, Los Angeles, *Daily News.*

Pacific Society of Printing House Craftsmen — Mission Inn, Riverside, Calif., June 25 and 26, 1948. E. Deo Paul, President, 430 Court St., San Bernardino, Calif.; Blair Lord, Secretary-Treasurer, 3650 Fairmount Blvd., Riverside, Calif.

PNPA Mechanical Conference — William N. Hardy. Manager, PNPA, 209-213 Telegraph Bldg., Harrisburg, Penna. Chairman Mechanical Committee, E. O. Davies, Mechanical Supt., Harrisburg (Pa.) *Patriot* and *Evening News.*

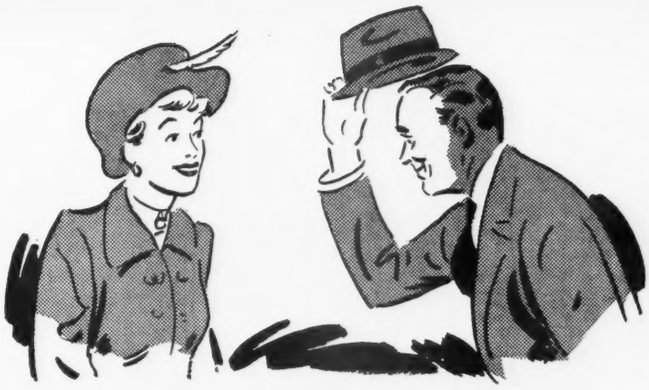
Printing Industry of America—Edgewater Beach Hotel, Wed. to Sat. inclusive, Oct. 20-23; James R. Brackett, General Manager, 719 Fifteenth St., N.W., Washington, D. C. 1949 PIA Convention — Hotel Biltmore, Los Angeles, Nov. 14-17, 1949.

SNPA (Eastern Div.) Mechanical Conference—Walter C. Johnson, Manager SNPA, P. O. Box 1569, Chattanooga 1, Tenn. Chairman Executive Committee, I. J. Gardner, jr., Composing Room Supt., Chattanooga (Tenn.) *Times.*

SNPA (Western Division) Mechanical Conference—Secretary, C. W. Tabb, 723 Texas Bank Bldg., Dallas, Tex.

Southwestern Photo-Engravers Association — Roosevelt Hotel, New Orleans, La., June 27, 28, 29, 1948. Executive Secretary, Virginia Nichols, 3621 Country Club Circle, Fort Worth 4, Texas.

Southwestern Graphic Arts Conference—E. J. Deubner, Executive Secretary, 130 No. Volutsia Ave., Wichita 8, Kan.



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Newspaper mechanical and production executives who are looking for the best in press packings in order to get better printing of first and second impressions should turn to NEW ENGLAND NEWSPAPER SUPPLY COMPANY. Our years of planning, research and testing, coupled with the proving of NEW ENGLAND products by hard usage in hundreds of plants enables us to give you the best in press packings. Write today or get in touch with our nearest branch office and have us tell you why you'll do better with NEW ENGLAND products.

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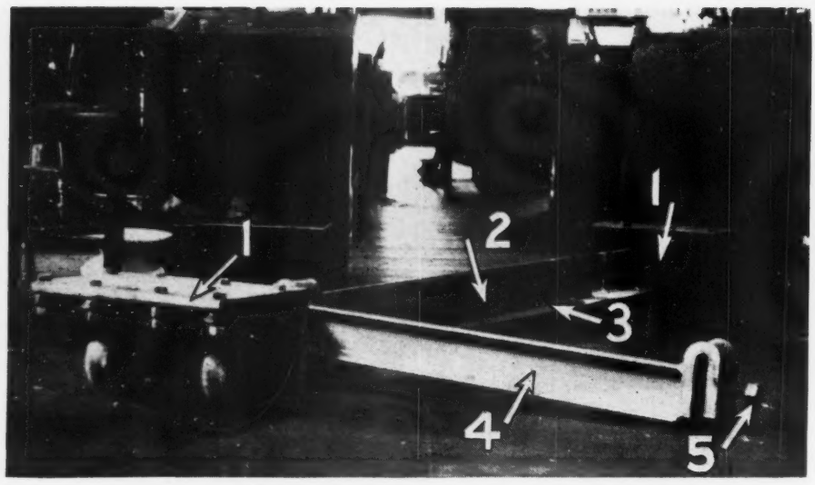


View of one of the dollies *1* and *2* (with cross bar *4*) for moving Linotypes from one location to another in the plant of the Roanoke (Va.) *Times* and *World News*. The device is not shown complete. By way of explanation, there are two separate dollies mounted on Micarta casters as shown at the left at *1* and *2*. After the machine has been raised so that two of its toes rest upon flange *2*, the two dollies (one at either side of the machine) are securely fastened together with cross bar *4*. The slots in each of the hooked ends of the cross bar fit over vertical portion of angle iron *2* in the dolly and the dollies are held rigidly together after tightening cap screw *5* at each end of the cross bar.

Helpful Devices In Virginia Plant

By DR. R. R. VOORHEES

Dolly For Moving Linotypes Anybody who has tried to move a Linotype during some composing room change-over knows that it isn't the easiest job in the world. In fact, it was the difficulty of the job that set S. K. Trunnell, Superintendent, and W. T. Slusher, Chief Machinist of the Roanoke (Va.) *Times* and *World News*, to constructing a dolly that would make easy the job of moving a Linotype.

The gadget consists of a two-part dolly (two separate dollies, *1* and *2* in the illustration) with a cross bar *4* to hold the two dollies together while moving a machine from one location to another.

The two dollies are duplicates. Each dolly is made by 5 ft. 3 in. or 7 ft. 4 in. overall including end pieces for casters. On each end of this length of angle iron there is welded at right angles a section of angle iron 6 in. by 8 in. by ¾ in. thick. Double ball bearing swivel Micarta casters are mounted on each of these two end pieces, two casters to each end. These casters are rated at 600 lbs. per caster which gives an idea of their sturdiness. There is only 1 in. clearance between the floor and the flange *2* on the centerpiece of the dolly upon which the toes of the machine base rest. This means that a Linotype is never very far off the floor when it is being moved.

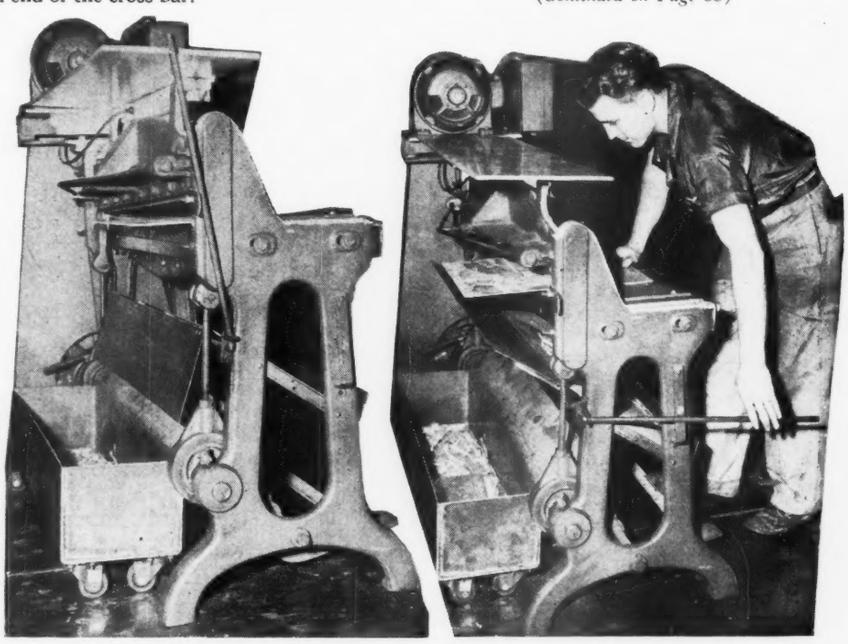
To use this dolly, the Linotype is jacked up one side at a time until it is slightly over 1 in. above the floor. This operation can be done with two persons using crow or wrecking bars. Then one of the dollies is slipped under the two toes of the Linotype and the other unit slipped under the two toes on the other side. The toes, of course, rest on the horizontal flange *2* of the centerpiece of the dolly. The machine is now supported by the two dollies clear of the floor. The next operation is to apply the cross bar to hold the two dollies rigidly together while transporting the machine to its new location.

The cross bar of the dolly consists of a 26 in. length of I beam with a steel hook *4* welded to each end. This cross bar is made so that when the two units of the dolly are in place the slots in the cross bar hooks will fit over the vertical edge of the angle iron centerpiece of the two dollies. A hex, hd. cap screw *5*, ⅞ in. by 2½ in. in each hook is turned up tight.

On new style machines with large base one cross bar is 36½ in. long with ¾ in. hook welded to each end.

It takes less than 5 min. to jack up a Linotype and slide the two units of the dolly under the feet of the machine, then put the cross bar in place and turn up the cap screws. The Linotype is then ready to be rolled to its new location. To take the Linotype off the dolly takes less than another 5 min.

(*Continued on Page 88*)



Deflector for Guillotine — In using a guillotine in the photo-engraving department, the portion of many flat plates is trimmed off at the back of the knife and falls into the hell box. Such flat-plates usually contain a number of cuts which are to be mounted separately. The back part of the plate isn't waste but may contain perfectly good photo-engravings. To prevent the back section of a plate falling into the hell box, H. E. Terry, foreman of the stereotype department, Roanoke (Va.) *Times* and *World-News*, developed a chute that causes the wanted part of the plate to slide down an inclined shelf to the front of the machine within easy reach of the operator.

The device is simple in construction. Essentially, it consists of a fixed inclined shelf extending from front to back of guillotine frame (about 30 deg. incline). The front edge of the shelf is flanged to prevent the plate section from skidding off onto the floor.

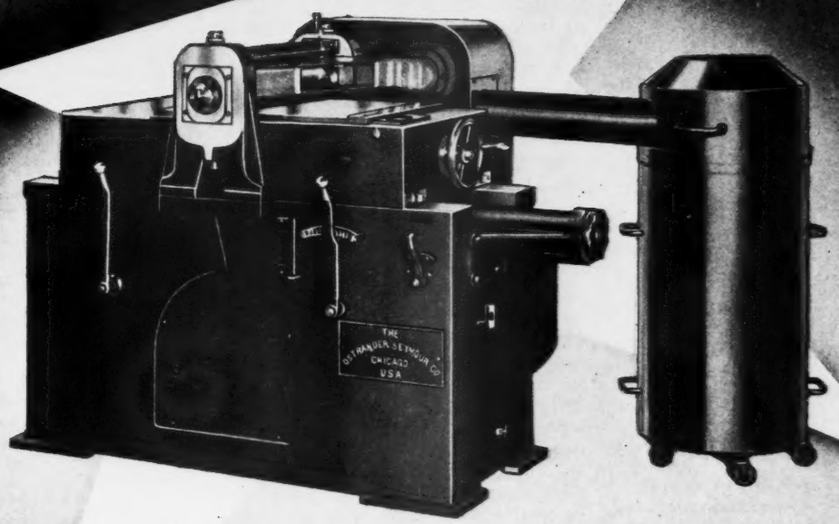
To the rear edge of the shelf an extension plate is fastened to a swingable rod. The rod is supported in bearings at left and right of the machine frame. The rod is bent at right angles at the left of the machine so the operator can raise or lower the extension plate. When the plate is in lowered position as shown at the left in the above illustration, the trimmed off sections of a plate fall into the hell box. In this position, the handle for operating the extension is positioned slightly past center-vertical.

When the back portion of the plate consists of a usable engraving, the operator pulls down the extension plate handle which raises the extension plate in line with the inclined shelf under the machine, as shown in the illustration at the right. When the cut is made, the back portion of the plate falls upon the extension and skids down the inclined shelf to the front of the machine.

HYDRAULIC DRIVE

HEAVIER CONSTRUCTION

ADJUSTABLE CUTTER HEAD



WOULD YOU ACCEPT *Extra Profit?*

SUPPLIERS TO ELECTROTYPERS AND STEREOTYPERS SINCE 1876

Never before has efficient equipment been so essential to profitable operation. Yet in many plants little attention has been given to the machinery of production, in relation to profit or loss.

Modern, up-to-date equipment increases production and reduces costs. It changes loss to profit and small profit to a more generous one.

The Ostrander-Seymour Rotary Head Plate Shaving Machine (Junior Model) is designed for present day requirements. It is as efficient as the experience of 65 years in producing equipment for electrotypers and stereotypers can make it.

If your margin is little, if delivery requests seem unreasonable, if you need better quality plates faster, write or call. Recommendations do not obligate you.

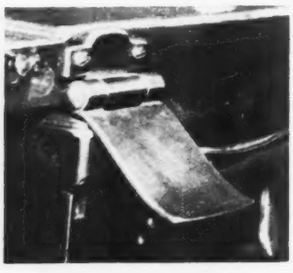
THE OSTRANDER SEYMOUR CO.

4703 W. ARTHINGTON ST. • CHICAGO 44, ILL.

HELPFUL DEVICES

(Continued from Page 86)

Safety Guard For Ludlow It is possible to injure a finger severely on a Ludlow if it happens to be unconsciously put under the bed of the machine when the delivery slide is



in. To avoid this, S. K. Trunnell, Superintendent and W. T. Slusher, Chief Machinist, devised a guard that eliminates the possibility of injury. The guard is made from a strap hinge one section of which is cut so there is just enough stock left to fasten to the Ludlow bed. Just enough of the other section is left to furnish a flap to hang down and cover up the delivery slide when it is out and to cover the open space when the slide is in.

The lower section of the cut off strap hinge is curved and beveled a bit to eliminate interference while raising or lowering the table.

Makes Setting Mixed Lines Easy The setting of mixed or overhanging slugs on the Linotype equipped with Mohr saw or Mohr saw ad measure attachment, is made easy by the use of a device devised by W. T. Slusher, Chief Machinist. The device makes it easy for the operator to assemble and justify the second line of a two-slug combination used in grocery advertising.

The device consists of a horizontal shelf and a pointer. The shelf is of suitable size to support a 30-pica slug with the overhanging characters projecting downwardly as shown in the illustration. The shelf is positioned above the assembler slide scale on the face plate of the machine. After casting the upper slug of a two-slug combination such as is used in grocery advertising, the operator places the upper slug, as shown in the illustration, so the overhang of the slug rests against a fixed stop on the shelf to correspond with the pointer affixed to the right-hand end of the slide. The pointer just clears the face of the slug as matrix assembly proceeds.

The only adjustment which need be observed by the operator (other than the necessary matrix justifications for the second line) is to place the overhang of the slug on the shelf in proper register with the assembler slide pointer. On the second line, of course, the operator assembles enough quad matrices as indicated by the pointer to cast a blank face on the slug which fit under the overhanging portions of the first slug. The pointer also indicates to the operator just how many letter character matrices he may assemble for the second slug—these words being limited of course by the space available between the overhanging characters of the first or upper slug.

Gravure Research, Inc., Makes Progress

A REPORT on the progress made to date on its five-year research program, and election of officers, featured the first annual meeting of Gravure Research, Inc., held at Battelle Institute, Columbus, O., on June 1, 1948.

Membership of the research organization of companies processing or printing by gravure processes heard engineers of Battelle discuss the laboratory work under way at the Institute and a report of its Technical Committee. The Battelle research report gave detailed information on laboratory techniques that have been worked out for use in the experimental investigation of carbon tissue. Methods for measuring the moisture content of carbon tissue, amount of dichromate absorbed by the paper and gelatin of the tissue, rate of depletion of dichromate sensitizing solution during use, rate of penetration of ferric chloride through developed carbon tissue resist on copper, and the measurement of tonal densities of developed resists were described. The report of the Technical Committee discussed light sources, dark reaction, and production problems.

At a business session, George A. Preucil, Chicago Rotoprint Company, was elected president of Gravure Research, Inc., for the following year. C. J. Murray, Philadelphia *Inquirer*, was elected first vice president; R. H. Simpson, C. T. Dearing Printing Co., Louisville, Ky., second vice president; and W. H. James, New York *Daily News*, was re-elected secretary-treasurer.

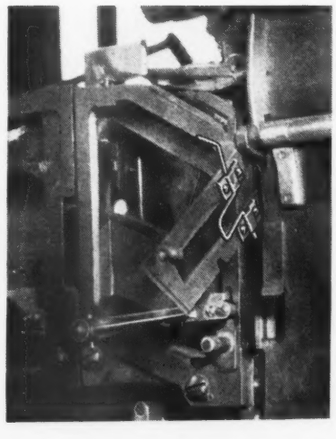
Newly elected directors are George A. Preucil, ex-officio member of the Board; C. J. Murray; M. George Martin, Standard Gravure Corp., Louisville, Ky.; W. H. James; J. E. Hazel, Art Gravure Corp., New York, N. Y.; R. H. Simpson; and Winfred R. Isom, R. R. Donnelly and Sons Co., Chicago.

Other member firms of the organization are: Kable Brothers Co., Mt. Morris, Ill., represented by R. R. Kable; Intaglio Service, Inc., of New York, represented by Oscar Smiel; Intaglio Service, Inc., of Chicago, represented by Len S. Pinover; Art Gravure Corporation of Ohio, represented by M. J. Tiernan; Detroit Gravure Corp., represented by James V. Noel; the Art Color Printing Co., Dunnellen, N. J., and the Chicago *Tribune*.

Gravure Research, Inc., is a nonprofit organization to sponsor research in gravure printing production with a research expenditure of $25,000 per year. Its investigations are conducted at Battelle Institute, Columbus, O.,

Easy Spaceband Removal—To assist in removing a set of spacebands from the box on a Linotype, A. E. Kappa, Head Machinist for the Lexington (Ky.) ***Herald*** and ***Leader***, devised an attachment for the box.

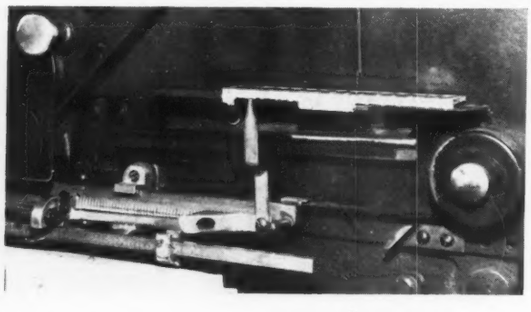
The attachment is applied to the box gate and consists of a one-piece U-shaped wire tongue (made from music wire). As is shown in the illustration, the wire is provided with two bearing surfaces and a handle to enable the machinist to rotate



the U-shaped tongue inwardly against the first spaceband and start all of them up the inclined supporting rails. In this position, the machinist can readily grasp and withdraw them from the box.

Two little plates are fastened to the spaceband box gate with two screws. The plates are channeled to form a bearing for the U-shaped wire.

In the illustration, the spaceband box gate has been opened to enable the reader to visualize construction of the attachment. This device does not interfere with normal operation of box parts nor does it interfere with accessibility.



Setting mixed and overhanging slugs on Mohr Saw equipped Linotypes is easy in plant of Roanoke (Va.) *Times* and *World-News*.

GIVE YOUR NEWSPAPER A *High Hat* PERSONALITY

Some newspapers have a certain quality look . . . a personality that's head and shoulders above the competition.

You notice something more inviting about the type, the make-up, the "color" of the inking . . . the life and sparkle in the halftones.

One thing that can contribute greatly to your paper's good looks is good cylinder packing—and that means VULCAN Newspaper Press Blankets.

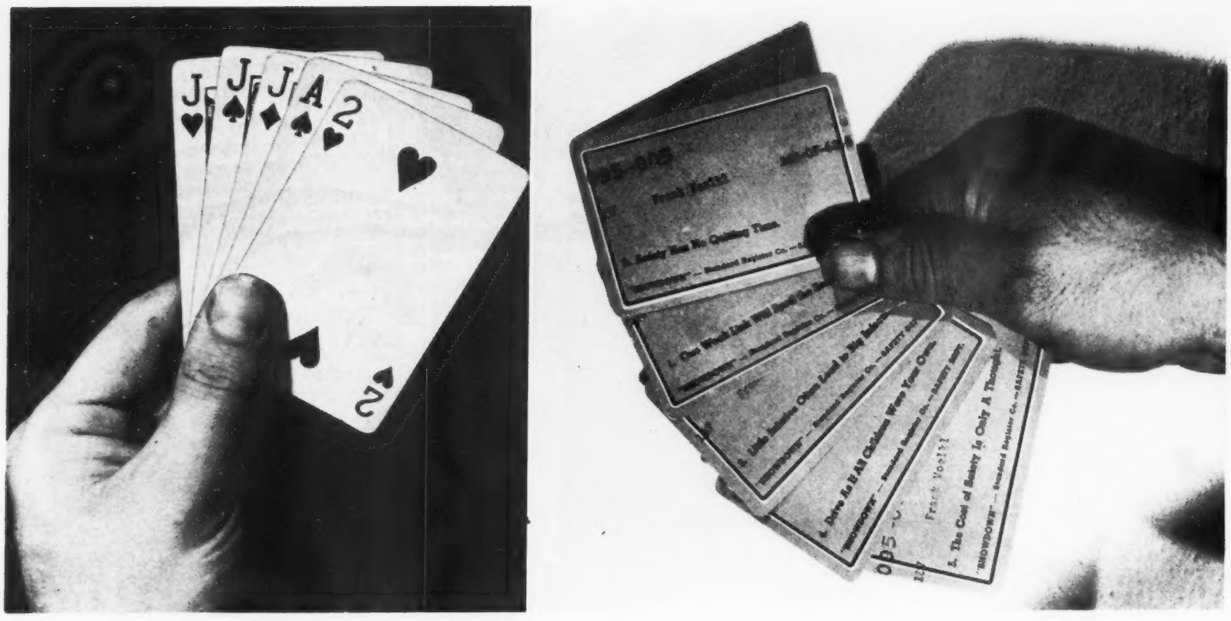
VULCANS have just the right degree of compressibility, greater uniformity of thickness, greater tensile strength in the coating, which means greater resistance to wear and abrasions—long service life. There's a right combination of VULCAN Blankets for every press and condition. Order VULCANS today.

VULCAN RUBBER PRODUCTS — MADE IN BROOKLYN, N.Y. U.S.A. — VULCAN PROOFING CO. — "THE MARK OF QUALITY"

Vulcan PROOFING COMPANY

FIRST AVENUE & 58th STREET • BROOKLYN 20, NEW YORK

Pacific Coast Representative: THE CALIFORNIA INK CO., INC. • *Canadian Representative:* SEARS LIMITED, TORONTO



Showdown Poker Hand shown at left; at right the reverse side of the same hand is shown. The cards are dealt one at a time in the plant of the Standard Register Co., Dayton, O. Perhaps the hand shown above might be good enough to win a contest among Standard's 1500 Dayton employees. The winner, however, must qualify with respect to certain stipulations before he is handed the prize. He must be able to quote the week's slogan without referring to the card, and must produce the card after being asked the slogan; he must also wear the safety equipment that is prescribed in his department at the time he is asked to repeat the slogan. Through contests such as this one, Standard Register has compiled in a year and a half two separate records of more than 2 million man hours without a disabling injury.

An Aid To Safety Consciousness

THERE are, of course, many ways in which management can impress upon employees the necessity for avoiding accidents in the plant. Some of the plans for inculcating safety consciousness may not be long-lived, making it necessary to devise new ways of securing employee cooperation from time to time. Nevertheless, no matter how brief the effectiveness, these schemes have their value. Others can be devised to carry on the educational part of the safety program.

One of the best that has come to our attention is currently being used in the plant of the Standard Register Co., Dayton, Ohio. Divisional Superintendent Frank Voelkl explained the plan to *Printing Equipment Engineer*.

This one consists of the assemblage of a showdown poker hand. Each week, every employee in the company's Dayton plant received a playing card on which was imprinted a safety slogan, along with the employee's name and clock number. This latter was addressographed onto the card so that no exchanging could be done among employees. Weekly contests are held with cash awards of silver dollars going to employees who can quote that week's slogan without referring to their card, for being able to produce their card after being asked the slogan, and for wearing safety equipment if it is prescribed in their department, at the time they are asked the slogan.

This method of "dealing" cards continues for five weeks, until a poker hand is accumulated. At that time, those persons holding high hands are free to enter them in the "finals". Winner of the first such contest held among Standard's 1500 employees—with everyone eligible except contest officials, from the company president on down—held four 5's. Second prize winner held four 4's. A high full house took third prize. The winner received a $50. Savings Bond. Other prizes were smaller Savings Bonds and Stamps.

The same sort of contest could be run over a five-day period, although machinery for imprinting cards, distributing them and handling other contest details would have to be set up well in advance. Mr. Voelkl, who also is a member of Standard's Safety Advisory Committee, stated that the weekly contests helped keep interest in the overall contest at a high pitch. In general, he said, this novel means for encouraging safety consciousness among employees of Standard Register was found very satisfactory.

On the hand shown in the accompanying illustration, the five safety slogans used are as follows:

1. One weak link will spoil the safety chain.
2. Safety has no quitting time.
3. Little injuries often lead to big infections.
4. Drive as if all children were your own.
5. The cost of safety is only a thought.

Through such unique contests and a strong emphasis on visual education, Standard Register has, in the past year-and-a-half compiled two separate records of more than 2 million man hours worked without a disabling injury. For one such period, running from Jan. 1 through Aug. 26, 1947, Standard Register recently received the National Safety Council's Distinguished Service to Safety Award.

Huber's Building Exterior Completed

The exterior construction of the first building of the J. M. Huber Corp's. new printing ink plant in McCook, Ill., has been completed and work is now under way on the interior, said Joseph S. Hart, vice president of the ink division recently. This is the first of several buildings to be erected on the 16 acre site at First Avenue and Route 66 which runs between Chicago and St. Louis. It is also near the Atcheson, Topeka and Santa Fe Railroad.

The building contains 40,000 sq. ft. and is the beginning of a $500,000 project, which marks the extension of Huber's ink manufacturing operations in the Chicago area.

When completed this summer, the new plant at McCook will include complete facilities for the manufacture of inks for newspaper, magazine, container, and commercial printing. Individual units will be devoted to rotogravure and news inks. It is expected that the plant will produce upwards of 25,000,000 lbs. of ink annually.

SCOTT

"The Modern Newspaper Press"

• The Scott Extra-High-Speed Printing Unit employs the most modern gearing—special automotive type alloy gear steel, heat treated, hardened and lapped—the most powerful and quietest gearing on any press.

• The Printing Cylinders of solid forged steel, relatively short and with 6½ inch diameter roller bearing shafts of special design produce the most rigid and uniform impression.

• The Scott Ink Distribution inks the pages so uniformly, regardless of speed, that it is difficult to pick out slow motion copies from top speed production. The most nearly uniform inking of any newspaper press.

• The Scott 3 and 2 Ratio Folder handles all types and sizes of products better. The inside sections of collected products are cut a trifle shorter than the outside sections greatly improving the appearance of heavy papers. Elimination of transfer from one set of pins to another improves appearance and avoids dangerous folder chokes. The patented Expansion Bands and patented Safety Gate make it the safest of all Newspaper Folders.

Send for New Catalog on
this Modern Press

WALTER SCOTT & CO., INC.

PLAINFIELD, N. J.

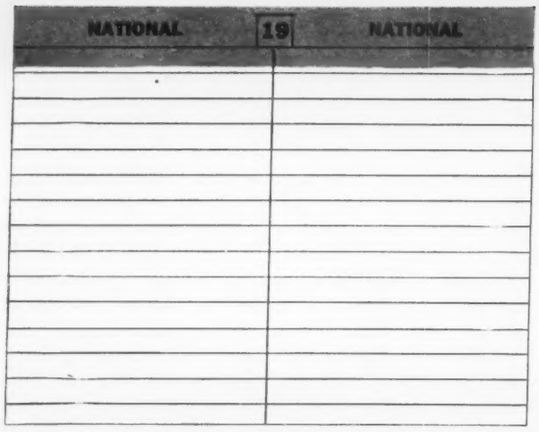


Fig. 1 — This illustration shows one of the envelope designs suggested by *Star* composing room foreman Bill Davies, for a numbered envelope system used in handling cuts and stereo mats. Each envelope bears a number. All cuts and mats for a certain ad are also numbered with the corresponding envelope number. Advertiser's name and running date are written on face of the envelope. Envelope can be reused a number of times. It's made of heavy manila stock. Size, 9½ in. by 12 in.

Fig. 2 — Roland Fox, Minneapolis *Star* and *Tribune* paper handler recently won an award for suggesting installation of spray hose for re-wetting paper roll butts.

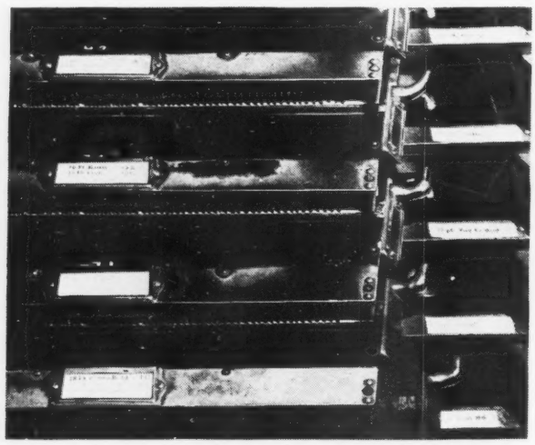


Fig. 3 — Fred Miles, Minneapolis *Star* machine operator in the composing room suggested display magazines be kept in the same slots in the racks as at present but that each magazine and its rack slot be plainly labeled with point size and name of type face. The other (and the important part) is that no other magazine ever be put in that slot. Time is saved if operators look for a magazine in only one slot or compartment.

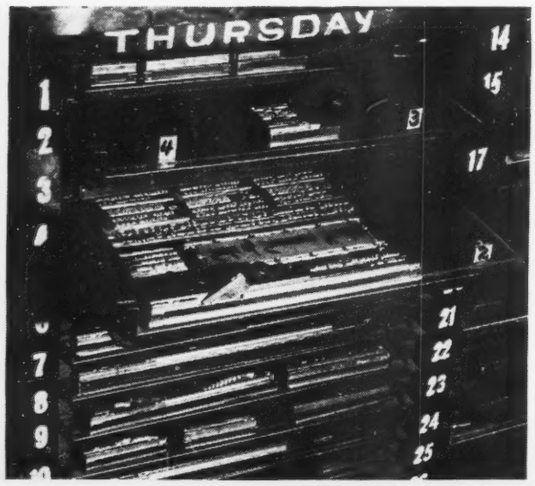


Fig. 4 — View of section of ad storage rack in composing room of the Minneapolis *Star* and *Tribune*. This system of numbering advertisements for storage and ready reference before publication was suggested by Bill Meirs, *Star* markup man. Future ads are placed in certain slides in the rack according to a numbering system. When an advertisement has been removed for making corrections the ad man places a stereo-cast block or marker with number of the slide as shown in the accompanying picture. The number on the block refers to column width of the ad.

AWARDS given employees of Minneapolis *Star* and *Tribune* Mechanical Departments for suggestions.

By RUTH GALL

IDEAS for increased efficiency have been popping in the Minneapolis *Star* and *Tribune* mechanical departments. Four composing room men and one paper handler were given awards recently in the year-round employees' suggestion system. The system, set up April 1 to replace spot suggestion contests, rewards ideas in proportion to their worth, with the lowest award $5 and the ceiling unlimited. Contributions are judged weekly by a joint management-worker committee.

Bill Davies, *Star* composing room foreman, pocketed $25 for suggesting a numbered envelope system in handling cuts and mats. At present, cuts and mats are sent from the dispatch room to the stereotype department in heavy 9½ in. by 12 in. envelopes. Davies suggested each envelope be stamped with a number and dispatch room workers number the mats to correspond with the envelope number. (Fig. 1) For example, an envelope might be marked No. 4. The name of the advertiser and running date would be written on the envelope and the mat or mats marked No. 4. The stereotyper would then return the mats in envelope No. 4. This system keeps mats from being misplaced and lost and saves workers' time. Davies further suggested a green-banded envelope (Fig. 1) be used for national material (to make separation simpler) and a red-banded envelope be used to designate rush jobs.

Roland Fox, paper handler, received $10 for suggesting the installation of a spray hose (similar to those on the presses for wetting rolls) above the re-winder in the paper room. (Fig. 2) Many butts, received from the presses, have been wet down previously. The paper on these butts, however, dries out and sticks together—causing breaks in the sheets while they are running through the re-winder. By wetting the ends of the butts again, the paper will run through smoothly. Fox tested 13 butts. Only one failed to run without a break after being wet down.

Two $10 awards were earned by Fred Miles, *Star* machine operator—one for numbering Linotype and Intertype machines and the other for improving the filing of Linotype split magazines by marking racks for them.

While at the present time Linotype and Intertype machines have numbers, they are not known by many printers in the composing room. Miles suggested that numbers, at least 9 in. high, be placed between the name plate and the

(*Continued on Page 109*)

for

QUALITY PLASTIC PLATES

• Look for this Reilly PLASTICTYPE stamp on the back of the plastic plates you receive from national advertising accounts. It's your guarantee of receiving a precision-perfect plate which is the achievement of *six full years* of producing fine plastic plates. The standards of precision which every Reilly PLASTICTYPE must meet are unmatched in the industry. When you see this Reilly PLASTICTYPE stamp you can bet there'll be no production bugs on that ad.

Actually, you newspaper men helped to develop Reilly PLASTICTYPE standards. Aided by your suggestions, Reilly engineers have standardized the manufacturing procedure for Reilly PLASTICTYPES to give you these fine reproduction features. Every Reilly PLASTICTYPE is the same uniform thickness, obtainable only with homogeneous Vinylite plastic. Every Reilly PLASTICTYPE is closely routed to clean up all shoulders of illustrations and reproduced type. Open areas are routed to .055 of an inch in depth so that, even in the third dimensional shrinkage of stereotyping, there's no open area printing.

It's not surprising that over 250 national advertisers are regular Reilly PLASTICTYPE users . . . for tear-sheets have convinced them that this precision-perfect plastic plate gives cleaner, sharper reproduction. So you'll be seeing plenty of these Reilly PLASTICTYPE stamps . . . a stamp signifying the achievements of 40 years of "Reilly Research."

See the Reilly PLASTICTYPE display in Booths 69-70, Adonis Room

Reilly *Plastictypes*

REILLY ELECTROTYPE COMPANY

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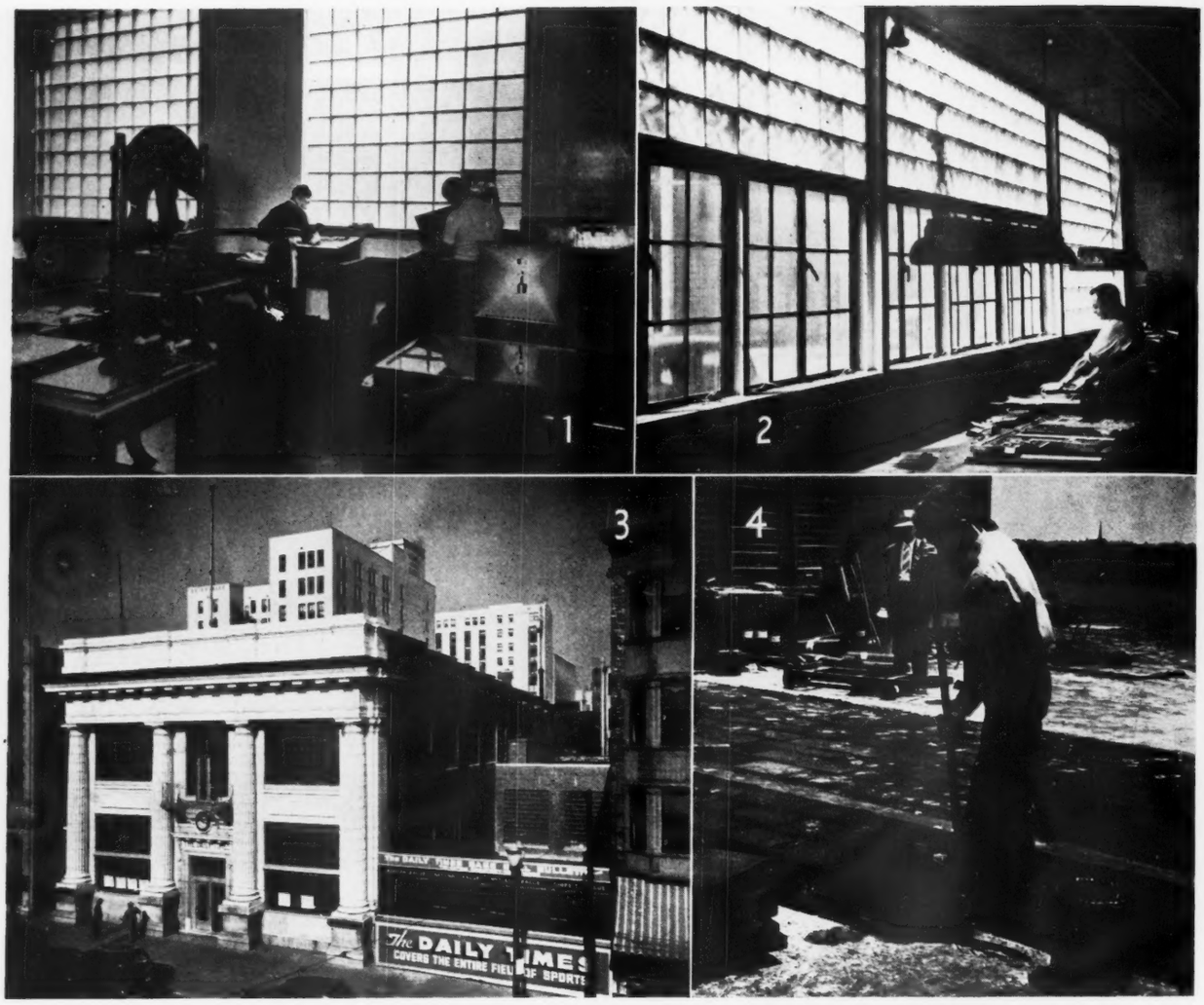

Utilities of Glass Block in Windows and Roofs

1.—In the Davenport (Ia.) *Daily Times*, PC Glass Block insures privacy and eliminates infiltration of dust and dirt.

2.—In the Port Allegany (Pa.) *Reporter-Argus* PC Glass Blocks have been combined with standard windows for ventilation. Block panels provide more light for printing operations and serve as an insulated wall.

3.—Replacing old window sash with PC Glass Blocks at the Davenport (Ia.) *Daily Times* created a modern appearance and reduced the cost of maintenance.

4.—Glass blocks for roofing constitute a different kind inasmuch as they are used for roofs, ceilings and walls where controlled air conditioning is desired. Obviously, these blocks do not transmit light as heat insulation is the function they are called upon to perform. PC Foamglas is being applied to roof of plant of Crowell-Collier Pub. Co., Springfield, O.

Temperature And Humidity Control Simplified With Glass Block Windows

By FRANCIS A. WESTBROOK, M.E.

(Photographs courtesy Pittsburgh Corning Corp.)

MOST of the new buildings constructed for printing plants and many old ones which have been modernized are now provided with glass block windows. Floors, walls, ceilings and roofs are also frequently made specially with glass block cores of a different kind. One of the most important reasons for this is that the insulation against outside temperature changes thus secured greatly facilitates the maintenance of uniform atmospheric conditions inside the room or building. This is obviously of particular advantage where air conditioned areas exist, especially in printing production departments. Glass block windows also have additional advantages which will be discussed.

Where conventional window glass is used the condensation on the panes is bound to be excessive at times, especially in cold weather, and this has two outstandingly bad results. In the first place, the removal of moisture from the room atmosphere makes maintenance of the proper degree of humidity difficult, if not impossible. In the second place, the condensate deteriorates the window frames and sash rapidly and is expensive from the standpoint of upkeep.

Another consideration is that atmospheric conditions close to ordinary windows are likely to be different in severe weather than in the middle of the room. That is, it may be uncomfortably cold, or hot, adjacent to conventional windows and the humidity may be different so that the efficiency of operations is pretty sure to be adversely affected. In other words limitations are placed on the use of the floor space which may react unfavorably on economical production.

Heat Insulating Properties

The use of glass blocks for all, or most,

(Continued on Page 108)

when the subject of BETTER INK comes up...

Who will have the information? No A. N. P. A. Mechanical Conference is complete without a discussion of this important factor in newspaper publishing.

You'll find a man at the Conference who's got the story on ink — the kind of ink that will give your paper a clear, clean-cut, attractive appearance. He's the Herrick representative.

He's the man who can tell you how and where to get an individualized news ink, compounded to suit just *your* pressroom conditions. Obviously, such an ink should be better. Awards won by Herrick users is testimony that it *is* better.

So when the subject of *better ink* comes up — the *Herrick Ink man* will have the information you want. Look him up at the Conference.

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HERRICK Inks

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4082

Water Used to Apply New Rubber Cam Rolls

ALLEN HARVEY, machinist with the Bloomsburg (Pa.) Morning Press, has worked out a little kink to assist in applying line-composing machine rubber roll shaft cam rolls.

He starts the new rubber cam roll on the shaft for a distance of about a ½ in. Then he rests the opposite end of the shaft on the floor. The rubber roll itself is then filled right up to the top with water. One hand is placed palmwise over the top of the rubber roll and pressure downward is exerted. The pressure on the water-filled roller expands it so that it slides easily on the shaft.

Patent Office Swamped

Many war and postwar developments are being kept out of use because of the inability of the U. S. Patent Office to cope with the mounting flood of patent applications, which has almost doubled in the past four years, writes H. A. Toulmin jr., nationally-known patent attorney, in a 32-page article on *Patents and the Engineer*, the first half of which appears as a special insert in the June issue of *Product Engineering*, a McGraw-Hill publication. "Applications are being received at an annual rate of 70,000, nearly double the 1943 rate," he reports.

Prepared as a guide to engineers and others not experienced in patent law, the part of the article to appear in June contains a detailed analysis of patent procedure, a digest of Patent Office rules and a review of the many methods for testing and protecting patentable inventions.

Loss of examiners who are experienced in special fields and an increasing complexity of cases, which make simple examinations impossible, are two of the reasons cited by Toulmin for the fact that today 150,000 cases await action and the examination of applications lags two years behind schedule.

Other factors responsible for the jam are:

1. Overcrowded facilities. At present 40 percent more personnel occupy 20 percent less space than before the war.
2. Inexperienced examiners. Today, 40 percent of examiners have less than two years' service.
3. Increasing volume of literature to be searched. Increasing numbers of technical publications, books and patents lengthen time of search.
4. High proportion of new cases in work load. Initial actions require more time than final actions.
5. Rising importance of validity. If careful job is not done, patents held invalid by courts will cause lack of confidence in patent system.

Issues Annual Report

Approved by the Board of Directors, President A. L. Freedlander has issued the 47th annual report for the Dayton Rubber Co. Net sales for the fiscal year ended October 31, 1947 amounted to $34,163,450, an increase of about 5% over sales for 1946. Net profit of $1,815,625 after deduction of Class A dividends, was equal to $3.80 per share on the 453,341 shares of common stock. It is pointed out in the report that common stock owners number 6591, residing in every state in the union. The ownership of shares is wide and is as follows: 92.2% own 100 shares or less; 6.2% own from 101 to 500 shares; .8% own from 501 to 1000 shares; .8% own over 1000 shares. The firm manufactures Dayton V-belts for many purposes, offset press blankets, printing press rollers, truck tires and tubes, radiator hose and a number of other products. Dayton's research department is illustrated and described in the report. The report consists of 40 pages and cover, 8½ in. by 11 in. It is an excellent example of the modern report to stockholders, employees and the public and is well illustrated by means of many halftone illustrations, graphs and charts.

MANUAL *of* STEREOTYPING

by JOSEPH D. GOGGIN

In this book, the author discusses the three primary factors in stereotyping—equipment, materials and manipulation. Since the stereotyping process largely is an Art and the results to be obtained in good plate-making are dependent upon the coordination of equipment, materials and manipulation, a reliable guide for securing this coordination is essential.

In preparing this book, the author has drawn upon his extensive practical experience and study in the Art. The all-important preparation of the form from which the mold is to be made and the molding and casting procedures are thoroughly discussed from the standpoint of the peculiar requirements of the process.

A Glossary and Encyclopedia gives definitions of terms used in the stereotype process. Bound in black cloth, gold stamped, 256 pages, size 5½ in. by 8 in. Price, $5, cash with order. Handling margin makes it necessary that cash accompany all orders for books.

PRINTING EQUIPMENT *Engineer*
1276 WEST THIRD STREET, CLEVELAND, OHIO

The Single Color
Offset Press

By I. H. SAYRE

THE PURPOSE of this book is to offer a detailed technical explanation of the operation of the small single color offset printing press. It also carries recommendations for approved methods of printing technique and press care which apply to all offset printing. Much of the technical operating information applies to all makes of small offset presses. Should be in the library of all executives interested in offset printing.

Section I deals with Harris offset presses.

Section II deals exhaustively with materials used in offset printing.

Section III deals with ATF's Webendorfer single-color offset presses.

Generously illustrated with 99 figures in line and halftone; 284 pages; size, 6 in. by 9¼ in.; bound in blue cloth, cream stamped lettering.

Price $6 per copy

Because of the small handling margin please enclose cash with order

Printing Equipment Engineer
1276 West Third St.
Cleveland 13, Ohio.

Patents For The GRAPHIC ARTS FIELD

Covering patents issued May 11, May 18, May 25.

All new patents for the Graphic Arts are reported exclusively for Printing Equipment Engineer by Invention, Inc., an industrial patent research organization in Washington, D. C. Invention, Inc., presently has the only staff in the country that examines, in the U. S. Patent Office, the complete printed copy, drawing by drawing and page by page, every one of the several hundred new patents issuing each week. Printing Equipment Engineer is the only trade publication in its field offering a report based on this complete coverage. For copies of the patents listed here specify the patent numbers and send 25c for each separate patent, or 10c for each trade mark or design patent (stamps not accepted) to the Commissioner of Patents, Washington, D. C.

Binding, Cutting, Perforating

During the three weeks covered by this report, no patents have been issued for this heading.

Composing Room Equipment

2,441,899. PHOTOGRAPHIC COMPOSING MACHINE combines the simplicity of typewriting with the regularity and adaptability of composed printing. Each line may be justified and previewed before it is photographed. The machine, briefly, is made up of a composing unit and a photographing unit, each being adapted to receive either of two interchangeable carriages. This arrangement enables a line to be set up while the previous line is being photographed and affords a high degree of efficiency. Invented by Ashley G. Ogden, Baltimore, Md. Assigned to William W. Darsie, Baltimore, Md. Application May 30, 1945. 15 claims.

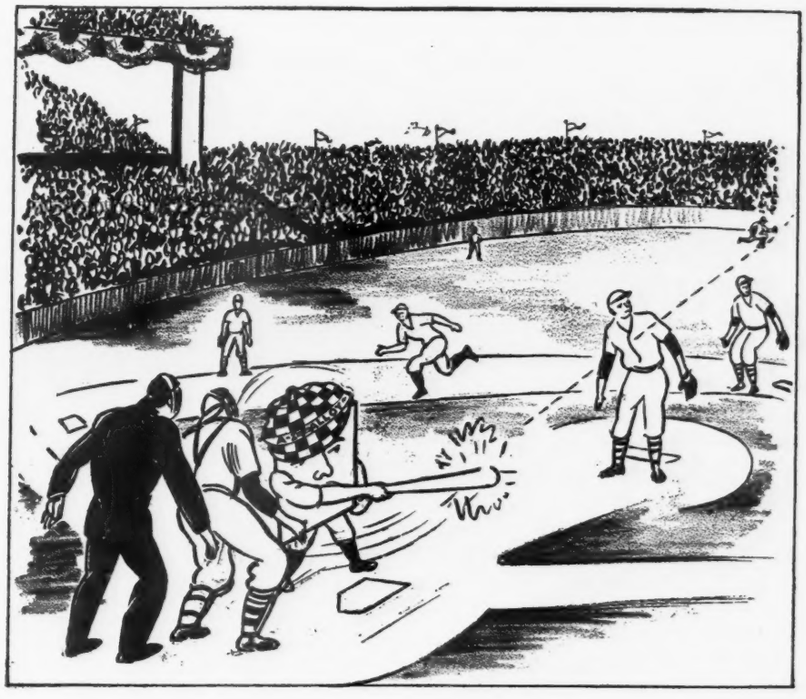
Feeding, Folding, and Delivery

During the three weeks covered by this report, no patents have been issued for this heading.

Miscellaneous

2,441,960. MANUFACTURE OF ELECTRIC CIRCUIT COMPONENTS. The invention relates to the building of circuit components for radio receivers, electrodes for thermionic valves, or to the printing of a pattern of resistant conductors on the surfaces of wallpapers and on fabrics for curtains, upholstery, and floor coverings, etc. Presumably, the latter materials may be used in completing or installing a radiant heating system in a building. An embodiment of the invention comprises the steps of preparing, by any of the well-known methods of the printing art, a printing plate for printing a representation of the metal electric or magnetic conductors of the circuit component or a part of them and making an imprint by the aid of the printing plate upon a surface, thereby differentiating on that surface the areas which are required to be conductive from the areas which are non-conductive. From that imprint, the conductors are produced by subjecting the printed surface to treatment which operates differently on the areas of the surface differentiated by the printing, thus changing the differentiation into a differentiation of conductive and non-conductive areas. The development of the conductor from the imprint may be effected by etching, bronzing, electro-deposition and the like. This patent is included in this report because of its similarity to regular printing procedures. Invented by Paul Eisler, London, England. Unassigned. Application Feb. 3, 1944, in Great Britain Feb. 2, 1943. 7 claims.

2,441,961. A WASHABLE WALLPAPER is prepared on a paper stock characterized by having a maximum curl of fifteen seconds or less when a three-inch circle is placed on a surface of water. "Hibulk," a printing paper sold by the West Virginia Pulp and Paper Company is suitable as the base stock. A preferred procedure is to print a design on the glossy side of a 3-mil cellulose acetate foil with a nitrocellulose lacquer ink containing about 10% of methyl ethyl ketone, leaving the matte side to be used as the top surface. This solvent attacks the acetate causing permanent adherence of the ink. A printed foil in which the ink is merged into the foil is obtained. The ink is then overprinted with a coating which acts both as a colored background for the paper and



THE TOUGHEST IN THE FIELD!

No use talking, A-Z ALLOY is the *toughest* zinc alloy in the photoengraving field.

This alloy is especially made for engravers who prefer a tough metal for regular work, long direct press runs or heavy mat work. It is ideal for fine screen and close color register.

It's tough . . . yet you will find A-Z ALLOY etches smooth and fast. A simple test amazes some engravers who still think toughness means slow etching. Put a strip of engravers' zinc and one of A-Z ALLOY side by side in a bath, take them out after a few minutes and measure the etched depth . . . you will be *surprised.*

A-Z Alloy and its well known partner, Zomo Electric Zinc, are obtainable through leading metal suppliers.

ZOMO ELECTRIC ZINC ◆ A-Z ELECTRIC ALLOY

as an adhesive. Such a coating is made up of ½ double prime RS nitrocellulose, an alkyd resin (35% oil modified) in Toluol, a plasticizer, titanium dioxide and a solvent. While this coating is still wet, the foil is laminated to the base paper stock. Invented by Albert E. Gessler, Scarsdale, Clifford J. Rolle, Yonkers, and Francis J. Tuttle, New York, N. Y. Assigned to Interchemical Corp., New York, N. Y. Application March 11, 1942. 6 claims.

Plate Making

2,441,609. PRINTING SURFACES AND PHOTOMECHANICAL REPRODUCTION. Printable values similar to those obtained by photoengraving, photolithography, and with other varied textures are claimed. The invention is preferably practised by means of a sensitive plate including a support combining plural relief patterns and a special coating. This plate, after suitably exposed under an ordinary negative, and treated, becomes transformed into a half-tone printing block. The method disclosed of producing a printing block consists in first providing a support for a sensitive coating having on one side at least one design in relief exhibiting a number of elevated and minute graphic elements forming a printable tint. The minute graphic elements and the sections in the support from where they are elevated both transmit light and offer a path to it for reaching from the other side of the inner areas of a coating surrounding and covering the minute graphic elements. Secondly, the support is coated with matter sensitive to light in an amount to surpass the tops of the elevated minute elements in a thickness sufficient for making the same unprintable when portions of the coating are retained thereon. Thirdly, the coated plate is suitably exposed through its support under an ordinary negative so as to reach with the light effect the sensitive matter both upon and around the minute elevations in proportion to the values of the printing negative. Fourthly, the exposed plate is submitted to a relief process capable of removing the coating from the support except in those areas occupied by the values to be reproduced. The invention discloses processes and products. Invented by Francisco G. Yanes, New York, N. Y.; Anne F. Goddard, executrix of said Francisco G. Yanes, deceased. Unassigned. Application April 18, 1944. 20 claims.

2,441,653. A PROTECTIVE SURFACE FOR A STEEL LITHOGRAPHIC PLATE is disclosed. A low carbon open hearth cold rolled steel, treated according to known processes, of a thickness of from 0.002″ to 0.003″ is preferred rather than the aluminum and zinc stock usually used for such plates. The steel plate has longer life and resists finger marking. It does not have to be counter-etched, thus eliminating one step usually required in making such plates. The plate carries a mechanically grained image-receptive surface on at least one face. This surface is coated with chrome glucosate which inhibits rust and corrosion. Invented by Charles H. Van Dusen, Jr., Willoughby, Ohio. Assigned to Addressograph-Multigraph Corporation, Wilmington, Del. Application July 1, 1942. 3 claims.

2,441,960. MANUFACTURE OF ELECTRIC CIRCUIT COMPONENTS. See description of this invention under "Miscellaneous" heading.

2,442,022. LETTERPRESS AND INTAGLIO PRINTING PLATES are produced by the use of a novel, movable mold which is a box-like container in which thousands of very thin pointed rods of the same lengths and of any desired cross section are housed. The rods are set upright in the mold and an image is formed by moving the rods in line with a desired image far enough out of the mold so that their larger diameters or their bodies are in the plane of the printing face of the finished plate, imparting shadings to the image. After securing the rods and mold in the image-forming position by clamping plates and screws, a casting material is poured over the surface of the partly projected rods. When set, the rods are removed from the casting material, and the block is shaved to the desired thickness. Invented by Emil S. Schulz, Cliffside Park, N. J. Unassigned. Application August 3, 1944. 2 claims.

2,442,246. STEREOTYPE CASTING BOX is designed to assure more uniform pressure between the plates to obtain slugs of regular thicknesses which do not vary over 1/1000th of an inch. This is accomplished by applying clamping pressure to the upper and lower plates, comprising the platten, at a number of spaced points along its sides. The platten is mounted in a rectangular frame by trunnions which project from the opposite sides of the lower plate and mount the platten to permit limited sliding and tilting movements of the platten in the frame. Two pairs of clamping, upstanding rods, carrying latches in the form of hooks, are mounted on opposite sides of the lower plate, one set to the front and the other to the rear of the frame. The rods are so connected underneath the lower plate to a system of tubing that they may be simultaneously turned by fluid pressure over a 90 degree arc so as to bring the hooks into clamping engagement with the top plate. Invented by

Gauge is Used to Test Alignment of Newly-Installed Distributor Box Rails with Distributor Combination Bar

WHEN new distributor box rails are installed in a Linotype or Intertype it is imperative that they be in proper alignment with the distributor combination bar. To trust this alignment to the eye is hardly sufficient because a fraction of an inch misalignment might not be evident to the eye yet it would impede the proper transfer of matrices from rails to bar with consequent damage to matrix teeth.

Carl Lamping, machinist with the Scranton (Pa.) *Times* has solved this aligning problem by means of a little gadget he made that quickly proves whether the alignment has been obtained.

A number of pi matrices were used for the making of this gadget. It was made certain that all seven combination teeth were included in the selection of the matrices to be used in making the gauge. The number of matrices used for the making of this gadget was sufficient to measure 1½ in. when placed together. Both sides of each matrix were tinned with solder. Then these tinned matrices were put on a new second elevator bar. The purpose of this was to see that the matrices were all in alignment. With the matrices on the new elevator bar, a piece of brass rule was fitted between the lugs on the front and also on the back of the matrices. The purpose of these pieces of brass rule fitted between the lugs was to hold the matrices firmly in place and keep them in alignment.

Two C clamps were then taken and one was used to clamp the matrices tightly between the two pieces of brass rule while the other C clamp was used to hold the matrices tightly against each other. With the two C clamps in place and tightened, they were run along the bar to see that the matrices were properly aligned with each other.

The next step was to heat the matrices and as the heat is applied, tighten the C clamps little by little as the solder softens. This heating process results in fastening all of the matrices together to form a single piece which will finally be the testing gadget.

When the fastened matrices have cooled, the unit is released from the C clamps. The lower lugs on the reference side of the matrices are then taken off completely. The radius of the distributor screw is then cut out of the front and back top lugs so that the gadget may be put on the combination bar without touching the screw. This completes the making of the gadget.

To use the gauge, all that is necessary, after the new distributor rails have been installed, is to back up the machine, remove the distributor box and then slide the gadget on the combination bar. The distributor box is then replaced and the alignment may be tested by moving the gadget along the combination bar to the box rails. If it moves freely and doesn't bind anywhere the alignment is satisfactory.

It is obvious that if the gauge indicates the distributor box upper rails and the distributor combination bar are not in alignment, that it will be necessary to either check the fit of the upper rails on their dowels or to remove a slight amount of stock from the top of the rails, as the case may be. In some instances, one of the rails may be slightly low but this can be avoided as a rule by careful fitting on the dowel pins. In other words, don't force new rails onto the dowels or vice versa.

Repeat Orders by all Stereotex users requiring additional presses prove the superiority of the—

STEREOTEX

Hydraulic Matrix Press

Capacity: 900 Tons

- It picks up AND HOLDS full depth and detail of the original form.
- It molds the mat to a more uniform "floor" thickness, accomplished by TWO predetermined successive pressure cycles, one WITH and one WITHOUT blankets.
- It permits instant presetting of the EXACT required pressures for molding and "bumping" or molding and drying.
- It eliminates stretch, distortion and buckling of the mat, and can produce the same shrinkage you now get.
- It slashes resetting costs of standing material because it saves the type.
- It has the production capacity of TWO mat rollers while occupying the space of only ONE.

Be sure to see the latest Stereotex Press in operation while attending the A.N.P.A. Mechanical Conference!

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STAMFORD, CONN.

RED TAPE

VERSUS

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The other day the foreman of a well-known New England daily said to us:

"You know, the only EMPTY folder I have in my back order file is that for "STAR PARTS".

This, of course, is no isolated example. Written and verbal commendations come to us daily from every part of the country.

This sort of praise is particularly gratifying because it proves we have lived up to the promises we made when the 'shooting war' ended. We promised then an early return to our pre-war standards, namely: **"Shipment of parts orders the same day received".**

Red tape and service cannot exist side by side. In the STAR PARTS organization the red ribbon has been cut to shreds!

ACE cord-rubber BELTS are tireless driving force of many a LINOTYPE and INTERTYPE machine.

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Publisher requires accuracy first

ROLL GRINDING LATHE KEEPS PRESSES ROLLING

Keeping a battery of high speed presses running day after day requires efficient rubber roll maintenance. At Crowell-Collier Publishing Co., Springfield, Ohio, this important work is done by a highly developed main press roll department. Included among the special purpose machine tools in this department is a brand new 25" LeBlond heavy duty roll grinding lathe which will accommodate rolls up to 13" in diameter, 120" in length.

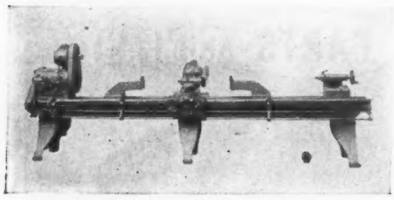
This lathe is equipped with a heavy duty 5-hp grinding unit designed by LeBlond, a special revolving spindle tailstock, and two steel-body chucks.

Although the publisher insists on quality first and speed second, it is believed the new 25" LeBlond lathe will provide both essentials in good measure.

Designed primarily as a rubber roll grinding machine, the 25" LeBlond lathe is readily adaptable to standard metal working operations.

LeBlond also manufactures a Regal roll polishing machine, a light pattern lathe for smaller rolls. It is a regular 19" Regal with special turning facilities for grinding and polishing, and is equipped with a 2-hp grinder.

The Regal performs all standard engine lathe operations as well as roll grinding. Easy and economical to operate. For complete information, write Roll Grinding Department, The R. K. LeBlond Machine Tool Company, Cincinnati 8, Ohio.



19" Regal Polishing Machine

Wayne O. Peterson, Moorhead, Minn. Unassigned. Application October 15, 1945. 4 claims.

Printing Inks and Related Chemicals

2,441,355. WATER-SOLUBLE ANTHRAQUINONE DERIVATIVES obtained by the process of this invention are partly valuable intermediate products and partly dyestuffs. The water-soluble dyestuffs may be used for dyeing and printing various fibers of cellulose esters and cellulose ethers. The water-soluble anthraquinone derivatives are made by treating anthraquinone-hydroxyalkylthioethers with esterifying agents, c. g., phosphoric acids, which contain, besides the group which bring about esterification, at least one group imparting solubility in water. Hydroxyalkylating agents include glycerol chlorohydrin, glycol chlorohydrin, etc. Invented by Paul Grossmann, Binningen, Switzerland. Assigned to Society of Chemical Industry in Basle, Basel, Switzerland. Application March 8, 1945, in Switzerland January 14, 1944. 5 claims.

2,441,559. LUMINESCENT COATED ARTICLES. Aluminum, barium, calcium, cadmium, and beryllium salts of beta-oxynaphthoic acid luminesce with great intensity. In an example, the aluminum etc., beta-oxynaphthoates are wet down with equal weight of linseed oil. The luminescence of the pigments was not inhibited. Pigments of the invention are useful in paints, printing inks, and other coating compositions. Products are used to render objects visible from illumination by ultraviolet light, e. g., an argon glow lamp. Maps, etc., for examination in the dark, may be printed from inks containing the pigments. Signs, pictures, etc. may also be so coated. Suitable vehicles include drying oils, various resins, etc., together with other conventional ingredients. Invented by Harry Burrell, Paramus, and Christy J. Vander Valk, Clifton, N. J. Assigned to Heyden Chemical Corporation, New York, N. Y. Application December 1, 1943. 8 claims.

2,441,612. BENZTHIAZOLE AZO DYE is obtained by coupling diazotised 6-methoxy-4'-amino-2'-methyl-5'-methoxy-benzene-1'-azo-2-benzthiazole with a para coupling N-dialkyl-aniline. Dye is suitable for coloring textiles and other materials of cellulose ethers and/or cellulose esters of organic carboxylic acids. Compounds can be applied in the form of aqueous dispersions and by bath methods. Mechanical impregnation methods may be used, the materials being impregnated with a liquid containing the requisite proportion of the aminoazo compound. To this end padding, or printing methods may be utilized. Invented by Christopher Stanley Argyle and Sydney Alfred Gibson, Spondon, near Derby, England. Assigned, by mesne assignments, to Celanese Corporation of America, New York, N. Y. Application June 27, 1942, in Great Britain July 23, 1941. 1 claim.

2,442,011. SOLVENTS are useful in printers' inks and paints. They are odorless. One process of preparation consists in introducing a feed stream of branched chain paraffin hydrocarbons into a plate type fractionating column which is operated under total reflux conditions during the introduction of the feed stream. The input of the feed stream is stopped when flooding of the plates of the column is likely. The operation of the column under total reflux is continued until equilibrium between liquid on the various plates of the column and vapors in contact with same is attained. An odorless fraction of the desired boiling range may then be withdrawn from selected plates of the column. Invented by Harold R. Legatski, Bartlesville, Okla. Assigned to Phillips Petroleum Company, Bartlesville, Okla. Application September 3, 1946. 4 claims.

Printing Presses and Equipment

2,441,454. NEWSPAPER STRIPING DEVICE is used to indicate a particular edition of a newspaper and is for use on a high speed printing press. It comprises a pair of flat-faced nozzles which are supplied with ink by gravity from ink pots positioned above the nozzles and movable therewith as a unit. The nozzles press firmly against a moving newspaper web and apply a streak or stripe of ink to the web. The width of the stripe is determined by the width of the nozzle. A water-base or thin oil ink is preferably used. Nozzles press firmly against the web so that there is no lateral spreading or leakage of the ink. A shallow recess is provided directly opposite the mouth of each nozzle so that the nozzles press the web into the shallow recess. The web is thus tensioned over the mouth of each nozzle and acts as a closure therefor. The nozzles are mounted so as to be variably positioned laterally with respect to the printed web so that the colored stripe is accurately located in the desired margin. The nozzles may be variably positioned upward and away from the web. Both adjustments are effected manually. Invented by Auburn Taylor, Charleston, W. Va. Assigned to The Goss Printing Press Company, Chicago, Ill. Application April 11, 1944. 5 claims.

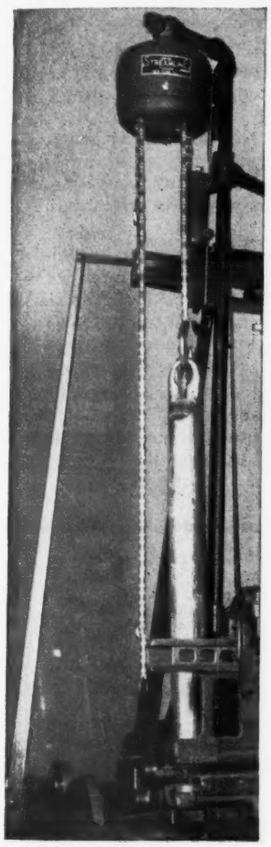
For Patent Research in the U. S. Patent Office, or a prompt estimate on any type of search, address INVENTION, INC., Munsey Bldg., Washington, D.C.

Awards Carnegie Scholarship

Herbert Hantman, Philadelphia, a January graduate of the Murrell Dobbins Vocational-Technical School, received a four year scholarship award from Printing Industries of Philadelphia, Inc., to the Carnegie Institute of Technology, College of Engineering, Department of Printing. The four year scholarship which has a value of $2,400, was awarded by John S. Williams, President of Printing Industries of Philadelphia to Mr. Hantman for exceptional performance and ability in graphic arts training at the Murrell Dobbins School.

STREAMLINE FEEDERS

Eliminate Your



METAL POT TROUBLES

We believe Streamline is the most efficient and practical metal feeder available for type-casting machines. Will not overfeed and eliminates hollow slugs.

It does away with slipping and potflooding, at the same time feeding at a faster rate of speed. There are models made for Linotype, Intertype, Monotype, Ludlow and Elrod machines. Make your inquiries direct or through dealers. Write today for further information.

IMMEDIATE DELIVERY

STREAMLINE METAL FEEDER CO.

Division of
H. Wibling Tool & Mfg. Co.

MAIN OFFICE

94 Taylor St. Danbury, Conn.

ALSO

106 Walker St. New York, N. Y.

Is Your Plant Located In this Area?

IF SO, we may be able to save you months of waiting for new equipment. Sometime ago we anticipated the requirements of the industry, and ordered accordingly. Now we can ship many items from stock, others within a short period.

Let us know your needs today.

We represent leading manufacturers of:

Casting Boxes
Chases
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Monomelts
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Proof Presses
Routers
Saw Trimmers
Shavers
Spaceband Cleaners
Type (Baltimore)
Type Cabinets

We also carry a large stock of Used Equipment

WRITE OR 'PHONE TODAY FOR FULL INFORMATION

THE M. L. ABRAMS COMPANY
NEW AND REMANUFACTURED PRINTING MACHINERY
1639 SUPERIOR AVENUE • CLEVELAND 14, OHIO

350 *members and guests attend Third District Conference, International Association of Printing House Craftsmen, Rochester, N. Y. in May*

FEATURING an all day technical session, with speakers on Gravure, Offset-Lithography, and Letterpress Production Problems, the Third District Conference of the International Association of Printing House Craftsmen was held at the Sheraton Hotel in Rochester, New York on May 21 and 22.

About 350 members and guests attended this meeting of the only truly "International" District in the Craftsmen's organization. Montreal, Ottawa, Toronto, London, Ontario, Buffalo and Rochester are the clubs comprising the Third District.

The business meeting on Saturday, May 22 was led by "Norm" Clement of Rochester, Conference Chairman.

Fred Baillie, International Third Vice President, greeted the assembled members on behalf of the International.

A. E. (Bob) Loveland, well known Montreal Craftsman, was recommended for Third District Representative, to succeed Norman Clement.

With Chairman Clement keeping events right on schedule, the Technical Session followed the business meeting, with Dick Gardner of the Eastman Kodak Co. acting as program chairman.

W. H. Wood, Director of Research for Harris-Seybold Co., addressed the meeting on *Offset Lithography in 1948.* (See June issue PEE for report of Mr. Wood's address.)

Letterpress Production Problems

Following Mr. Wood, Vernon L. (Bill) Gardner, Production Manager of Canfield & Tack, Rochester printers, spoke on *Letterpress Production Problems.*

"Too often . . . we consider higher printing costs a necessary thing instead of analyzing our equipment, our men, and our materials, and having them produce in the most efficient manner," Gardner told the Craftsmen.

Mr. Gardner stressed the necessity of training layout men in the production problems involved in the material they design. "The layout man should be advised of the best ways of doing things . . . I don't mean to suggest, when our production department advises our layout department, that at any time the appearance of the layout should be sacrificed for mechanical reasons."

Gardner emphasized the need to consider the men in the plant as to their production capabilities the same as we consider machines. He suggested: "Perhaps if we took as great care of our men as we do our machines, they would perform a lot better than they do."

Thiele Discusses Gravure

A great deal of interest and discussion was caused by the address presented by W. B. Thiele, Sales Manager, Graphic Arts Dept., Ford Instrument Co. Div. Sperry Corporation, *Rotogravure—Where, Why, and How.* In part, he said:

Progress in rotogravure has not been confined to Sunday newspaper supplements. Its first commercial use in the United States was for the printing of cellophane. The inks had to dry immediately, first, because the ink would crawl, and second, because most of that material has to be rewound.

The next development came in aluminum foil. At first the label printers were not much interested. The Reynolds Company set up foil mills and built plants for the printing of aluminum foil.

A printer is a printer whether he prints on paper or glass or anything else. However, unfortunately for the printing industry, the printing of aluminum foil, cellophane and glassine has gone into the hands of a few people. According to

How To Handle Labor Grievances

by Dr. John A. Lapp

Grievances between employers and employees are endless in variety. Careless treatment of them can result in serious disputes later.

Dr. Lapp discusses a practical treatment of the problem based on actual experience and the review of hundreds of cases.

Titles of the five part manual are:

- BACKGROUND AND HISTORY OF GRIEVANCE PROCEDURES
- GRIEVANCES AND HOW TO DEAL WITH THEM
- OUTLINE OF GRIEVANCE PROCEDURES
- GRIEVANCE PROCEDURES IN SELECTED INDUSTRIES
- PROBLEMS OF GRIEVANCE PROCEDURES

Bound in buckram cloth, 294 pages, 5½ by 8 in.

Price $4.00 cash with order.

PRINTING EQUIPMENT *Engineer*
1276 West Third St.
Cleveland 13, Ohio

Photography and Platemaking for Photo-Lithography

by I. H. Sayre

This is both an instruction book and an encyclopedia for offset-lith platemakers. Text in the book serves both as an instruction book for the beginner and as a reference book for the experienced platemaker. This revised edition contains new techniques, procedures and discoveries of methods. A new section on color process platemaking techniques has been Added. Albumin and deep-etched platemaking techniques explained carefully. Every phase of offset-lith platemaking included.

Price $6 per copy

May be ordered through Printing Equipment Engineer. Because of narrow handling margin, please enclose cash with order.

PRINTING EQUIPMENT ENGINEER
1276 West Third St. Cleveland 13, Ohio

Ever See a "GALLEY SLAVE?"

There are such things, even today.

They are found in even modern print shops and are as surely tied to galleys as were their namesakes of old.

They are the workmen who day after day handle heavy iron or steel "galleys" on which type forms are carried. Galleys that weigh about two and three-quarters pounds . . . *empty!*

We're in business to emancipate them. For we are making galleys out of husky Alcoa Aluminum that have these important advantages:

LIGHTER WEIGHT—⅓ the weight of galleys now in use.

CLEANER—Can't rust; just a whisk of a cloth and they are sparkling clean.

SAFER TO USE—Will not stick in the rack, making "pied" forms an everyday occurrence.

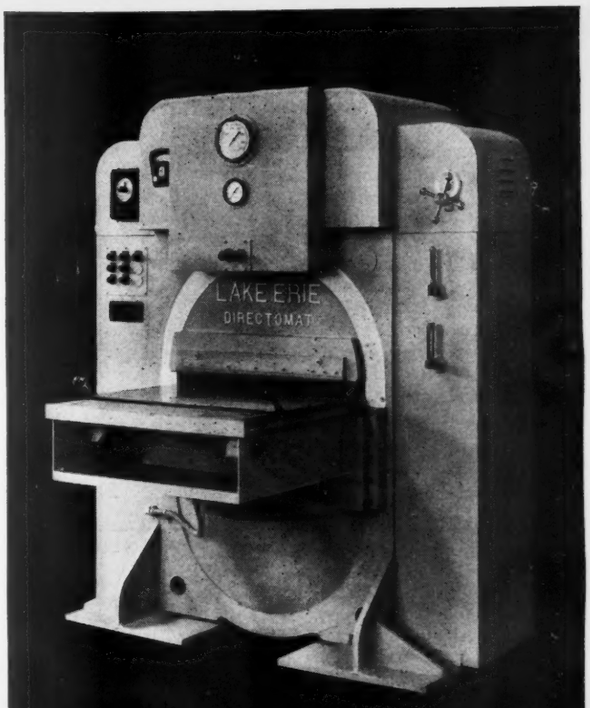
AND LOW-COST, TOO!

Galleys can be ordered with matching aluminum rack. Total weight of 100 galleys and rack: *only 126 pounds!* This means greater storage facilities, a cleaner shop, smaller investment in equipment, and more satisfied workmen.

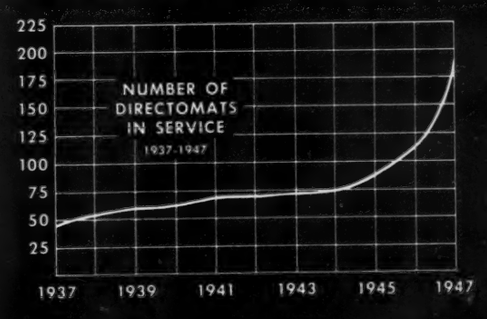
Interested? We're ready to talk business whenever you are.

ALCOA
ALUMINUM COMPANY OF AMERICA

GRAPHIC ARTS PRODUCTS
1959 E. Jefferson, Detroit 7, Mich.



DIRECTOMAT



Installations rapidly increasing in leading plants

The number of DIRECTOMATS now serving leading newspaper and commercial plants in the United States and other countries is nearly to the 200 mark, with new orders coming in at the fastest rate ever. The DIRECTOMAT has definitely established its superiority over all other types of mat making equipment. Write today for Bulletin 148 which describes the latest model DIRECTOMAT in detail.

LAKE ERIE
ENGINEERING CORP.
BUFFALO, N.Y. U.S.A.

LAKE ERIE Engineering Corp.
568 Woodward Avenue
Buffalo 17, N. Y.
Offices in Principal Cities and Foreign Countries

Leading manufacturer of hydraulic presses—all sizes and types—stereotyping...plastics molding...processing...rubber vulcanizing ...metal working...forging...metal extrusion...special purpose.

its last statement, one firm did $51 million worth of business last year.

There is now available rotogravure equipment on which can be printed 15,000 square cut accurately piled sheets per hour, with presses that range from 26 to 50 in. printing widths, in a maximum sheet size of 52 in. by 46 in. or thereabouts. That makes gravure a commercially competitive printing machine for multicolor. I do not recommend it for one or two color work.

This leads up to a consideration of your own market situation. I have never seen a printer yet who was not looking for a new market, because when his press work becomes old he has a lot of competitors. Two or three years from now, gentlemen, you can take it from me, price and quality are going to mean something again. And price and quality and your position in the printing industry are going to be based on your own skill, your own management abilities, but most important of all, on the equipment you have available for production.

There are some 50 new rotogravure multi-color presses being installed in the United States. Gravure is not a cure-all. It still takes skill and good sense and good judgment. I want to see gravure stay in the printers' hands. Gravure will do the printing for anybody, but it will do a lot better job for printers at a lower cost because of their experience in printing.

For many years certain people kept gravure under their hats. Today there are no secrets in gravure. You can find out all you want from the ink men, from the engraver, from the press manufacturers. Gravure is developing. The cylinder situation is improving. You can print profitably and efficiently by rotogravure. The process will never replace the other processes—it only advances with them.

NOW Faster—More Accurate
SLUG MACHINE COMPOSITION
Attaches in 1 MINUTE to old or new Slug Composing Machines
KELLOGG
Type-O-Writer KEYBOARD*

Faster composition, fewer errors, less operator fatigue are what you get when you operate your slug composing machines with Kellogg Type-O-Writer Keyboards. Standard typewriter key arrangement gives the operator full use of *both* hands and only *half* as many keys to operate. Sets caps or small caps by merely pressing a shift key. The easy operating Type-O-Writer keys actuate solenoid plungers which depress the slug machine keys. All-electric operation is almost effortless.

The Type-O-Writer Keyboard comes as a fully enclosed, portable unit in black crackle finish, with 8 ft. rubber covered cord and on-off switch. Its use in no way disturbs the slug machine keyboard. Write today for full information.

**The Kellogg Type-O-Writer Keyboard is fully covered by U. S. Patents.*

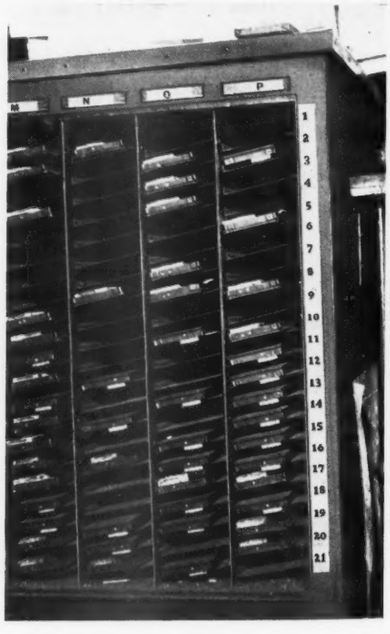
KELLOGG SWITCHBOARD & SUPPLY COMPANY
6650 South Cicero Avenue, Chicago 38, Illinois

Keyed Galley and Rack Storage

IN A newspaper composing room some of the editorial copy is intended for future use. This is set on a time copy basis—that is, when there is a lull in live news copy production. To keep all of this future composition stored in an orderly way so that it can be found at once when wanted, L. H. Butler, superintendent of the Harrisburg (Pa.) *Telegraph* employs a galley and rack key system. Since this article was written, the *Telegraph* has suspended publication.

The regular galleys in both single and double column width are used. At the closed end of each galley there is a 24 pt. line-composing machine slug set into a pocket in the head wall. Each of these slugs cast on a line-composing machine bears a letter followed by a number. The letter refers to a section in one of the galley racks while the number refers to the shelf in that rack under the letter. For instance, a galley that bears the letter and number N5 would mean that the galley is filed under N in the galley rack and is on shelf 5. Whenever any of the slugs get too worn for easy identification the slug is knocked off from the galley, the line reset and spot welded onto the galley head.

As has been stated above, the identification slug is cast 24 pt. size on one of the line-composing machines. The slug holder, or pocket, is made from thin



Oldest In The Country—
First In The Field

NOT only oldest in years—Wood Flong pioneered America's first dry mat back in 1915—but first today in service, quality and dependability wherever perfect stereotyping performance is demanded.

Your Wood Flong representative is more than a salesman. He is a skilled technician with long years of stereotyping experience behind him. His task is to help you insure uninterrupted, efficient performance in your stereotyping plant.

Contact our representatives at the convention

WOOD FLONG CORPORATION *Oldest In The Country*

WOOD DRY MATS *Always Uniform*

HOOSICK FALLS • NEW YORK *First In The Field*

NEW YORK CITY OFFICE: 551 FIFTH AVENUE • NEW YORK 17, NEW YORK

RICHARDS *leads the Parade*

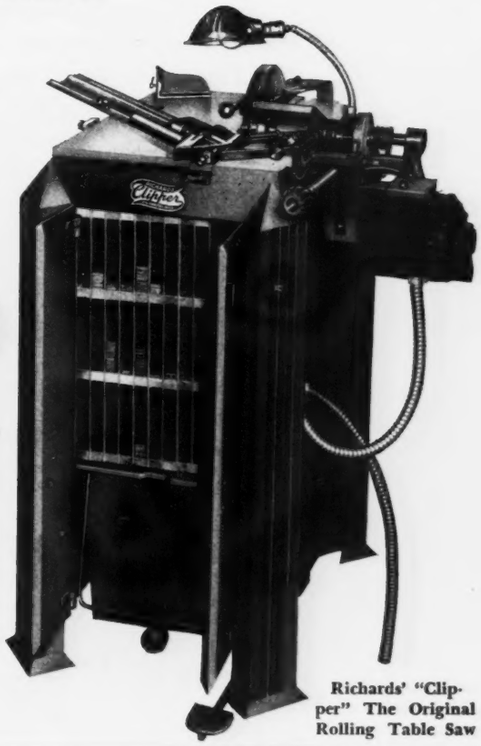
With Original Creations

SAWS
ROUTERS
MORTISERS

With Exclusive Patented Features

MULTIFORM RADIAL ROUTER Heavy Duty Full Page Capacity. Also built in ½ page Junior Model.

De Luxe "Do-More" Saw-Trim-Router-Planer



Richards' "Clipper" The Original Rolling Table Saw

Write for descriptive literature on all machines.

J. A. RICHARDS CO.
Dept. 55 Kalamazoo, Mich.

sheet metal suitably formed to hold the 24 pt. slug. After forming, the pocket piece is spot welded to the galley head wall. When worn, from repeated proofing or from usage, the slugs are recast, trimmed to size on a saw-trimmer and wedged into place in the pocket. Thus when the type matter is set and put in the galley the key slug is printed at the top of the type matter when the proof is pulled.

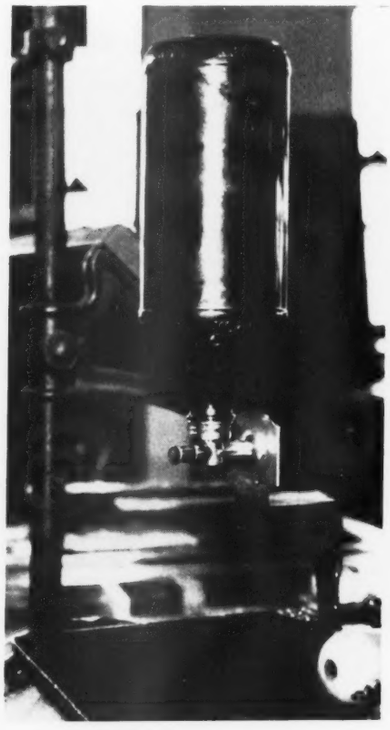
In the composing room there are galley racks for news and straight matter and other galley racks for advertising copy. Both kinds of racks are keyed in the same way. Galleys for news are available in single and double column widths, while those for advertising copy are available in one, two and up to four column widths. Anything over four columns wide is filed on boards in the manner followed in so many shops. The key letter and number at the top of each galley has no bearing on the set matter put on that galley. All news, of course, is put on one galley, there being no mixture of news and ad copy on the same galley. The compositor simply picks up the first galley he can reach on top of the news galley rack, if it is news that he is setting and begins to put his set type matter in that. When it is filled, it is proofed and the galley is then filed on the proper shelf and under the proper letter. The proof of that galley will identify where the type matter is to be found.

Ink Dispenser Helps to Keep Proof Press Clean

PROOFS in the composing room have a very happy habit of getting messy with a corresponding waste of ink. That was the case in the composing room of the Clarksburg (W.Va.) *Telegram* until Vernon R. James, foreman of the composing room, worked out a neat little idea for an ink dispenser.

The ink container is an Ipana Hand Lotion dispenser that a cosmetic firm puts out to fit on its bottles of hand lotion. This is the lotion women use to make their hands the kind that men love to hold. This dispenser was mounted on an arm that was in turn fastened to the proof press at one side and above the ink slab.

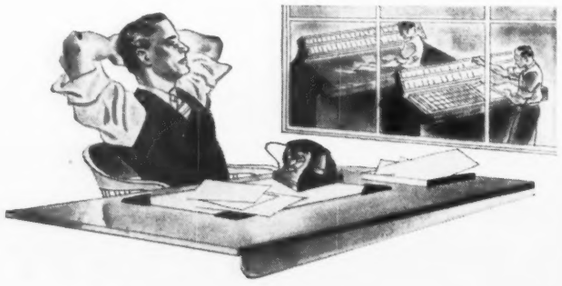
A bottle was then secured that the dispenser would take. The Ipana bottles are



a bit too small for ink dispensing purposes because they would not hold much ink. But it was not difficult to obtain a larger bottle since the dispenser bottle receptacle is of standard bottle neck size with standard threads.

The bottle was filled with ink, quickly inverted and screwed into the dispenser. Whenever ink is wanted it is an easy matter to press the plunger of the dispenser and out drops a small quantity of ink right on the ink plate. The usual roller used to ink the form is then used to distribute the ink over the plate and the proof press is then ready for use. This idea resulted in a considerable saving of ink and made the periodic cleaning of the ink table a much easier job.

"Some day I'm going to have a

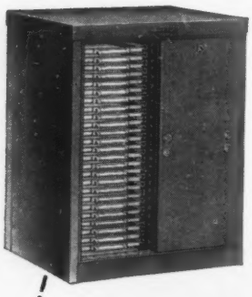


COMPLETELY HAMILTON EQUIPPED composing room"

● To make that "some day" arrive sooner than you had hoped for, start planning *now.*

First, with a layout sheet before you, and working with accurately-scaled miniature illustrations of equipment, arrange and re-arrange your layout until it best suits the flow of work through your plant.

Right there on that layout sheet you may discover a number of important ways to step up composing room efficiency. Probably you'll find that simply re-arranging your present Hamilton equipment and replacing obsolete pieces with Hamilton equipment better suited to your needs is all you will have to do to reach your goal.



Your Hamilton Dealer is ready to help you attain your ideal of a completely Hamilton-equipped composing room. Call him in today. He has ready for you the layout sheets and the miniature illustrations of equipment you will need. Or write us and we shall be glad to mail you this material.

Hamilton Cut-Storage Cabinets are built in 5 sizes and designs. Illustrated is No. 12405½ in which cuts are stored on steel proofing trays, making possible a simple, easily operated and accurate indexing system. Write for Catalog No. 24C.

HAMILTON
MANUFACTURING COMPANY
TWO RIVERS, WISCONSIN

ATTENTION ALL STEREO SUPERINTENDENTS

Have *You* tried these products RECENTLY?

STERE-O-CORK Moulding Blankets (In thicknesses of ¼", 5/16" and ⅜")

PADD-O-CORK Moulding Blankets (In thicknesses of ¼", 5/16" and ⅜")

IDEAL Moulding Boards (In thicknesses of .062" and .085")

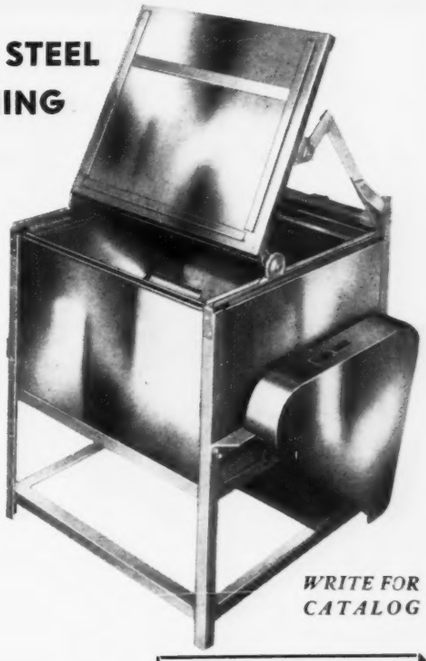
MASTERPIECE Cork Moulding Creepers (In thicknesses of .062" and .090")

We never stand still, — and as a result, — the above products, again within the past year have been vastly improved . . . Convince yourself by sending us a trial order . . . backed by a **Guarantee** that is a **Guarantee:** namely: — **YOU USE THE PRODUCT AND IF UNSATISFACTORY, RETURN SAME AND WE WILL REFUND YOUR MONEY** . . . You can't go wrong. What more can we offer?

• COYNE & PADDOCK INC. •

40-09 21st STREET LONG ISLAND CITY 1, N. Y.

STAINLESS STEEL ZINC ETCHING MACHINE

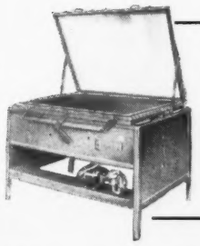


All Welded Steel Construction

- Stainless Steel Temperature Controlled Sinks
- Vacuum Frame Blankets
- Stainless Steel Trays
- Complete Dark Room Equipment
- Layout Tables
- Whirlers

Stainless steel tank, paddles and shafts. Mounted on steel angle all welded stand. Size: 22 x 26. Unit has motor driven exhaust blower (turbine type). Self aligning ball bearing shaft bearings. Counter balanced stainless steel cover.

WRITE FOR CATALOG



COUNTER-BALANCE HINGE TYPE PRINTING FRAME

14 x 17 to 50 x 70. Complete with pump, motor. Automatic control and vacuum tank available when desired. 16 x 20 to 50 x 70.

VISIT BOOTH 57
ANPA CONVENTION
JULY 19-20-21
PITTSBURGH, PA.

W. A. BROWN MANUFACTURING CO.

2035-49 CHARLESTON ST. • CHICAGO 47, ILLINOIS • ARMITAGE 4077

—Builders of Plate-Making Equipment for the Lithographer and Photo-Engraver for Over 15 Years—

Temperature and Humidity

(Continued from Page 94)

of the windows does a great deal to correct these difficulties because of their heat insulating properties. The blocks contain a sealed air space which, with their thickness, makes them good insulators. Except under the most extreme conditions of cold there is no condensation on the indoor side of the blocks, and of course it is never as much as with conventional windows. The heat loss in winter and the heat gain in summer from outside are much reduced with glass block windows.

Another advantage of this modern type of window and of special importance in printing plants, is that they keep out dust and soot better than old fashioned windows which might spoil materials in process of manufacture.

This type of window has been found effective for plants where cellophane is printed because it calls for such close humidity control. Gases are also given off during the printing of cellophane which attack steel windows. Consequently, glass block windows have been used with much success in such locations.

Fig. 1 is a photograph taken in the printing plant of the Davenport (Ia.) *Daily Times* in which it will be seen that the men are working right in front of the windows without being troubled by drafts, coldness or glare. Fig. 2 shows another interior in the printing plant of the Port Alleghany (Pa.) *Reporter-Argus*, where there is a combination of glass block and conventional windows. The latter are to provide for ventilation and are held down to a minimum. The balance of the window area is in the form of glass blocks which provide insulation and also for better diffusion of light.

Glass blocks are made in patterns which avoid a disturbing glare from direct sunlight, and which will direct natural outside light to distant parts of the room which would otherwise need artificial lighting. The excellent diffusion obtained is apparent in Figs. 1 and 2. A worth while feature of these windows is that they transmit less noise from the outside.

Cleaning the Windows

The cleaning of glass block windows is far easier because they are not divided into small panes which must be gone over individually. Their whole surface may be covered quickly in long sweeps with long-handled mops after wetting with a hose. Nor do the blocks show dirt as quickly as ordinary panes of glass so that on the whole the new type of window is definitely less expensive to keep clean than the old. Glass blocks also break much less frequently than panes and when one block is broken it is an easy job for any mason to replace.

An outside view of the Davenport (Ia.) *Daily Times* is shown in Fig. 3 from which it will be seen that the glass block windows give the building a trim and modern look. The same is true of their appearance from the inside as shown in Figs. 1 and 2.

Glass Block for Roofs

A different kind of glass block is used for the insulation of roofs, ceilings and walls which has proved successful where closely controlled air conditioning is desired. These blocks obviously do not need to transmit light, as heat insulation is the function they are called upon to perform. They consist of glass which seals in innumerable small air cells. They are moisture-proof, non-combustible, light in weight, have high and permanent heat insulating properties and are not subject to deterioration. They may be cut and shaped by ordinary tools.

Fig. 4 shows how these blocks are being placed on the roof of the Crowell-Collier Publishing Co. plant in Springfield, O. They may be set on wood, concrete, gypsum board or other suitable building material. As a general thing felt impregnated with asphalt or coal tar pitch is placed under the glass blocks. The felt is coated with a material similar to that with which it is impregnated and the blocks are laid in this coating.

Roofs which are to be walked on are covered with three plies of 15 lb. roofing felt between the glass blocks and the finish roofing.

MORE

TELETYPESETTERS

are on the way...

to meet the need for

MORE

TYPE IN LESS TIME

The demand for Teletypesetter, particularly by newspaper publishers, has reached a record high.

Teletypesetter production has been stepped up to meet this need.

If you are a publisher or a job printer, learn how you can keep your composing machines operating at *full* capacity *all* the time. Write today to

TELETYPESETTER CORPORATION
1400 Wrightwood Ave., Chicago 14, Ill.

TELETYPESETTER
REG. U. S. PAT. OFFICE

Similar insulation may be used for floors, ceilings and partitions where necessary to insulate the room very thoroughly. In the case of floors the insulation is laid on wood or concrete. It is embedded in hot asphalt and covered with felt saturated with asphalt. This is then covered with the concrete wearing surface. In a test to determine the strength and rigidity of insulation installed in this way a hand truck carrying 400 lbs. was dropped 100 times on the concrete surface without damage of any kind. Partitions may also be insulated with similar blocks where close temperature and humidity are called for.

The same kind of block is used to form an insulating core in the outside walls of buildings. They can be used with all types of masonry or concrete construction and with brick, tile or block facings. Such insulation has been found helpful in conserving fuel where the winters are severe and in controlling the temperature and humidity inside the plant.

Awards

(Continued from Page 92)

frame at the top of the distributor frame casting. The numbered signs should be constructed from two plates fastened together in fashion rather than one flat plate so they can be seen from both sides of the machine.

In his second contribution, Miles suggested magazines be kept in the same racks as at present, but that each slot be plainly marked for each magazine—and no other magazine ever put in that slot. Time would be saved if operators looked for a magazine in only one place. (Fig. 3)

Miles pointed out this system would be advantageous in the case of large type size magazines containing fonts, which are at present placed helter-skelter in two separate magazine racks. Also, the system would make it possible, after a time, for operators to see from a distance whether a magazine containing a particular size and face of type was on a machine by noting its absence (or presence) in its correct slot in the rack.

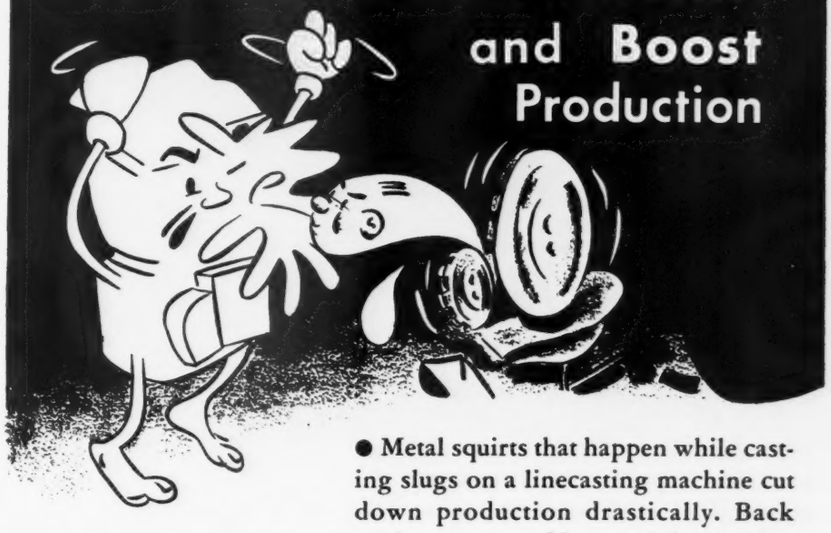
Bill Meirs, *Star* mark-up man, won $25 for a system of numbering ads and galleys so they can be quickly located. (Fig. 4) A great deal of confusion and much lost time is caused by looking for ads in the composing room. When corrections come in, ad men pull out a number of the slides to locate the ad requiring correction. Here is Meirs' system: Each ad that is placed in a slide should bear the number of the slide upon which it is placed by means of placing a linotype slug bearing the number at the head of the galley. The slug remains in that position until the ad is run. Sunday, Thursday and Friday slides should be numbered from 1 to 26; Monday, Tuesday and Wednesday from 1 to 13; Saturday from 8 to 13. No. 1 slide would be reserved for makeup men who pick up future-run ads—so there would be no No. 1 slugs. Just before proving an ad, the ad compositor places a linotype slug bearing a slide number at the top of each ad on his galley. Twelve-pica slugs numbered from 1 to 26 would be on the shelf above lights on the top of the makeup tables underneath which the ads are stored.

When regular slides become filled, ads would be placed on other slides, as at present, such as Sunday ads in Thursday racks, Monday in Tuesday racks, etc. Ads placed thus would be numbered with the slide number but these numbers would be preceded with an X—denoting ads were out of their regular slides. When a galley is taken from a slide for corrections, a marker (stereo block bearing a number) would be inserted, so the spot on the slide would be vacant when the corrected ad is to be replaced. The number on the block refers to the column width of the ad. Thus a figure 3 would denote a 3 col. ad.

Changes Boston Office

Federated Metals Div., American Smelting and Refining Co., has moved its New England office to new quarters in the Statler Office Bldg., 20 Providence St.; Boston 16, Mass., according to an announcement made by John L. Griffith, New England manager. Telephone numbers are not changed. They are Liberty 2-0797, 0798, and 0799.

STOP THAT LITTLE SQUIRT! and Boost Production



● Metal squirts that happen while casting slugs on a linecasting machine cut down production drastically. Back squirts are caused by metal that's either too hot or too cold—the ideal working temperature being a narrow range of 20° between 540° and 560° F.

You can maintain this ideal casting temperature at all times and so avoid costly back squirts by equipping your machine with a MONOMELT Single Melting Feeder. This attachment also gives you a constant metal level in the machine pot to assure solid, sharp-faced slugs at all times.

Actually, the MONOMELT Single Melting Feeder eliminates the pigging operation: it takes dead metal directly from killout . . . melts it . . . and cleans it.

Other MONOMELT Advantages:

- Reduces dross formation
- Lowers metal inventory up to 50%
- Gets maximum production from machine
- Requires less make-ready

DEALERS WANTED *who can provide skilled machinist service in a few choice territories.*

WRITE TODAY for information on **MONOMELT** *and dealerships.*

THE MONOMELT CO., Inc.

1611 N. E. POLK STREET MINNEAPOLIS 13, MINNESOTA

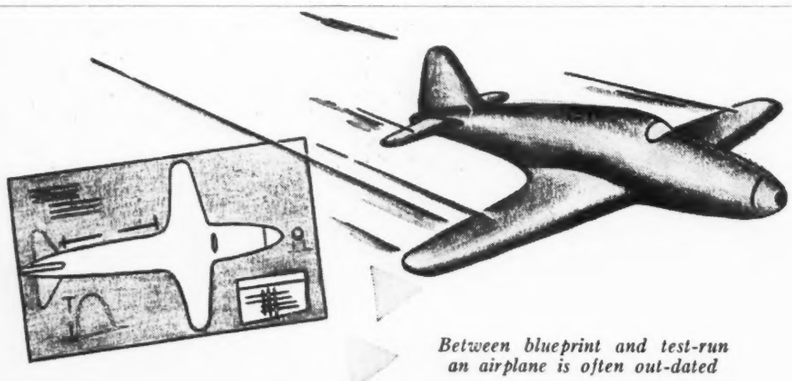
Easy Way to print one each consecutive numbered jobs

CONSECUTIVE numbered jobs where only one of each number is desired are a little puzzling to some printers. Take hat room checks for example. Often, these are required in quantities running up to a thousand numbers but only one of a kind. If done in the regular way it means frequent stopping of the press and changing the type.

J. N. Schench, printer, 42 Canisteo St., Hornell, N. Y., does considerable of this sort of printing and has worked out what appears to be the simplest and easiest way to do the job. Much of the work done in this shop are hat check jobs where only one of a kind is desired but where each hat room check is perforated, both parts of the individual ticket bearing the same number. To illustrate Mr Schench's method, a typical hat room check job will be taken as an illustration.

This job was for hat room checks running from 1 to 1000, one each but each ticket perforated with the identical number on both portions of the ticket.

The first thing to do is to set the numbers beginning with 0 and running to 9.



Between blueprint and test-run an airplane is often out-dated

How recently have you tried

EDES TRIPLEMETAL?

True, the forward progress in photo-engraving metals cannot begin to match the speed and multiplicity of improvements in airplane design, but don't fool yourself that the photo-engraving industry is standing still.

Take Edes TRIPLEMETAL for instance. It was good five years ago. It is a lot *better today*. If you haven't tried TRIPLEMETAL *recently*, you ought to test it right soon for such points of superiority as — holding detail up to and including 150 screen; close register color work; speed in etching, re-etching, finishing and lower cost.

Prove to yourself that Edes Photo-Engraving Metals do not "stand still". It costs you nothing to INVESTIGATE. See your Edes dealer.

EVERY YEAR IT'S BETTER INVESTIGATE

EDES

EDES Engraving Metals: Regular Zinc, Hard Matrix Zinc, Triplemetal, Copper, Brass, Gravure Sheets

PHOTO-ENGRAVING METALS

THE EDES MANUFACTURING COMPANY, Plymouth, Mass., U.S.A.

New York Representative, R. P. BICKFORD, Room 2118, 420 Lexington Ave., New York ● *Distributors*, G. C. AMENTA, 5842 North Leonard Ave., Chicago 30, Illinois ● GEORGE R. KELLER, 1329 N Street N.W., Washington, D. C. ● CHEMCO PHOTOPRODUCTS CO., New York, Atlanta, Dallas, Chicago, New Orleans, Boston ● ALLAN B. CROKE CO., Boston ● W. OLIVER TRIPP CO., Boston ● C. S. ILLINGWORTH, Buffalo ● G. C. DOM SUPPLY CO., Cincinnati ● J. W. FEINSTEIN, San Francisco ● MID-WEST PHOTO ENGRAVERS SUPPLY CO., St. Louis ● THOMPSON-HAYWARD CHEMICAL CO., Kansas City ● E. H. WALKER SUPPLY CO., Washington, Richmond

Novelty Printing

METHODS of printing so-called invisible pictures, which will appear in color when wet with water, have interested the advertising man and novelty manufacturer for some time and are the subjects of several patents.

This type of printing, which makes it possible to "paint without paint," may be done by the ordinary letterpress process in which the ink may consist of an ordinary linseed oil varnish containing from one to five percent of a water soluble dye. The dye, whatever its color in solution, must be of a neutral color in the dry state and be completely insoluble in the varnish. It should be ground as though it were a pigment, to the finest possible particle size in the varnish.

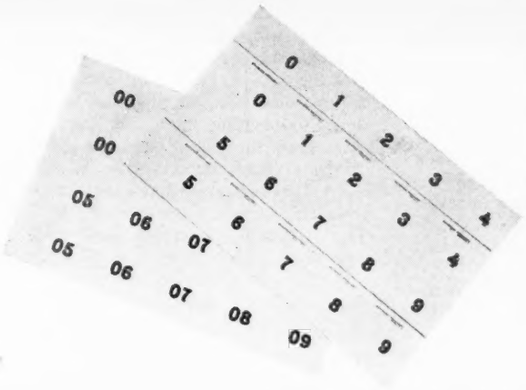
Dyes may also be ground very finely in a small amount of varnish and dispersed in a volatile solvent such as gasoline. Such a suspension can be used as an ink in the rotogravure process of printing to produce "invisible pictures."

Newsprint is quite suitable as a paper for this type of printing and is, in fact, preferable to some lighter quality papers which may be undesirable because of their sizing or coating.

Another printed novelty, invisible until painted with water, depends upon the absorption of the water into the unprinted areas of a colored paper. By employing the offset process, so that the fibers of the paper are not compressed in printing, and by using light colored lithographic varnish instead of offset ink, the printed areas are made waterproof but remain invisible until water is applied to the paper which is slack-sized to permit quick water absorption. Upon wetting, the unprinted paper darkens several shades affording a distinct contrast with the printed matter.

While this method of invisible printing does not produce a colored picture or design as does the previously described process, it has an advantage in that the paper can be dried out and reused a number of times before its effectiveness is lost.

—M. S. Kantrowitz, Chairman, Research Committee, Washington Club of Printing House Craftsmen
—*The Capital Craftsman.*



The consecutive numbering of jobs where only one of each number is desired is explained in the accompanying article. This type of job is produced economically in the J. N. Schench Print Shop, Hornell, N. Y. In this instance, hat check job production is discussed.

Since this is to be a job with a stub these numbers must be set in duplicate. These numbers are set and looked up as shown in the top card in the accompanying illustration. It will be noted there is a wider margin at the left of the card than at the right. It will become apparent what this is for as the method of printing these hat room checks is explained.

Exactly 100 sheets are run with this first form. From that hundred sheets the entire thousand numbered hat room checks will be made.

Of these hundred sheets one is laid aside. This is completed. This leaves 99 sheets for additional printing.

The form is then taken off the press and the numbers taken out of the form. In the place where each number was, a 0 is substituted without changing any of the spacing. The form is then replaced on the press and the side guage pin is moved sufficiently so that these 0s will print just to the left of the numbers already printed when form No. 1 was run off.

Of the 99 sheets from the first printing after the one was set aside as a finished sheet, 11 are taken and run from this second form.

The form is then removed from the press and the 0s taken out and in their place figure 1s are substituted, again without changing the spacing. The form is put back in the press and once more the left-hand guage pin is moved over a bit so that the figure 1s will print to the left of the 0s that were printed when form No. 2 was run.

Ten sheets with the first form only are then run with this form. Of these ten one will be completed. The other nine will be run again later with other forms.

The guage pins are then moved over a bit and nine with the first and second form are printed with this third form.

This process is continued with figure 2s being substituted for the figure 1s, then figure 3s for the figure 2s and so on until the numbers up to and including 9 have been done in the same way. In each instance one with only the first form is printed gives a completed sheet.

When this process has been carried out to the printing of the form with all figure 9s in it, the job will have been completed with the least amount of press stoppages and type changes.

HOW TO ADJUST

WORK-UPS

By Wm. H. Lichter
and Geo. F. Smalley

This 24-Page booklet analyzes causes of work-ups and gives proper procedure for locking up forms.

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CABINET
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SAW

IN 35 SECONDS a Rouse Band Saw cuts a full galley of slugs **to variable measure**—automatically, accurately. No gauge setting is required—no clamping—no measuring! Slugs feed mechanically **at uniform speed.**

Teamed up with a type-setting machine, a Rouse Band Saw does the work of hours in minutes. It cuts slug-lines for all types of composition that require frequent changes of line measure.

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COMPOSING STICKS
SLUG CLIPPERS
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LEAD AND RULE
CUTTERS
TYPE GAUGES

Write today for illustrated folder on this and other Rouse time-saving printers' equipment.

H. B. ROUSE & COMPANY
2214 North Wayne Avenue
Chicago 14, Illinois

For greater accuracy—specify Rouse Composing Sticks. An investment in Rouse equipment pays a handsome profit.

Roll-Handling Truck

A HAND truck named the RolTruk has been added to the line of Ironbound products. The RolTruk is designed to lift and move heavy cylindrical objects such as rolls of printing paper, wrapping paper, protective coating, etc., but it will lift and carry cylindrical objects like a drum, barrel or keg. One of the features of the RolTruk is the nonslip arm. Once the arm is locked around the roll, states maker, it will not allow the material being handled to roll off until the finger-tip release catch is manually disengaged. This feature prevents accidents to workers and eliminates damage to the product.

Hand operated roll-handling truck recently added to the line of Ironbound products.

The RolTruk is constructed of formed steel pipe and steel cradle. The entire unit is welded. Two models are available: Model RTL for light duty, has a product diameter capacity up to 32 in.; weight of material capacity up to 800 lbs. Model RTH for heavy duty has a product diameter capacity up to 40 in.; weight of material capacity up to 1500 lbs. Further information will be forthcoming if you will write to *Printing Equipment Engineer*.

Speeds Composition With Color System

IN THE plant of the Altoona (Pa.) *Mirror*, composition is speeded up by means of a color system devised by Leo R. Stull, superintendent of the composing room. The colors used are red, black and blue, all Linotypes being designated by one of these three colors.

There are two black Linotypes both with 8 pt. Ideal News. There are four red Linotypes, these four among them carrying 10, 12, and 14 pt. Cheltenham Bold Condensed; 8 and 10 pt. Ideal News; 14 pt. Caslon Bold; 12 and 14 pt. Sans Serif and 12 and 14 pt. Bodoni Bold. There is one blue machine—8 pt. Ideal News, 14 pt. Caslon and 10 and 12 pt. Bodoni.

All copy before being sent to the machines is marked with either a black, a red or a blue pencil, each color being used for that part of the copy to be set by the machine designated by the color. Of course, the type face and size is also marked on the copy. The idea of the use of the colored markings is to make it quickly discernable upon what machine is to be set what portion of the copy. The Linotype operators look over the copy on the hook and take off the copy that has parts marked in the color of their machine.

This system together with the fact that split magazines are used, has speeded up production and prevented frequent change-overs of machines.

Marking and Code-Dating Bulletin

AN 8-page catalog in which are described and illustrated 18 different marking and code-dating machines has been issued by Adolph Gottscho, Inc. The machines, several of which are new models, are used for imprinting, indenting, embossing, etching and hot-stamping all kinds of containers, labels, parts and products, sheet rolls, etc. Most of them are automatic and designed to fit into conventional production-line operations, while all feature the use of quickly interchangeable type. Copies may be obtained by writing to Adolph Gottscho, Inc., requesting Catalog No. 030, or *Printing Equipment Engineer*.

★

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WE SPECIALIZE IN

Used Metropolitan Newspaper Perfecting Rotary Printing Presses, Color, Magazine, Gravure, Aniline, Flat Bed Web Perfecting Presses, Special Presses and Stereotype Equipment.

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CHESHIRE MAILING MACHINES

Automatically Cut and Attach Addressed Labels to Newspapers, Magazines, Pamphlets Direct Mail, At High Speed and Low Cost!

Cheshire Machines have eliminated the bottlenecks in mailing rooms of leading publishers and printers for many years. They cut mailing time 'way down. Save the labor of many hands. Really make money for you. New, improved model is better than ever.

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The Royle Router

- A large table mounted on a rigidly constructed column.
- Convenient alignment and tightening of driving belts.
- Running parts designed to reduce vibration.
- Sufficient speed at cutter edge to route fine or rough out without reducing speed.
- Precisely fulcrumed elevating mechanism assures immediate reaction to pressure on the foot pedal.
- Changing cutter heads a matter of seconds.
- Speed and balance are built into Royle Routers.

JOHN ROYLE & SONS

Established 1855

10 Essex Street **Paterson 3, N. J.**

A straight line is the shortest distance between two points...Using Johnson Inks has often proved the direct course to the solution of printing ink problems.
CHARLES NEU Johnson AND COMPANY
GOOD INKS SINCE 1804

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BOSTON
ST. LOUIS
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KANSAS CITY
PITTSBURGH
ATLANTA
DALLAS

10th and Lombard Streets, Philadelphia, Pa.

EXECUTIVE ¶s

Martin Hollander and Theodore Maizus, according to Sales Manager Edward S. Jasser of Anchor Chemical Co., have been added to the company's staff. Mr. Hollander has had five years of research work in the experimental division of Republic Aviation Corp. Mr. Maizus formerly was associated in a sales capacity with Atlantis Steel Products and with Eastern Lighting Corp. Both new men are Army Air Corps veterans.

HOW WE STUMPED WILLIE*

*Willie is an A-1 pressman. When he talks about printing, you'd think he was weaned by Gutenberg. Yes, Willie knew his printing but when it came to lubricants for presses—well, that was a different thing. Willie thought one grease was as good as another and that just isn't so.

We showed him how Albany Tallow lubricant is three times as effective as ordinary lubricants. He was amazed at Albany's controlled melting point, (which feeds bearings as required). Now he always has Albany on hand.

Use Albany lubricants on your presses and note the difference. For presses equipped with grease cups—use ALBANY GREASE NO. 3. For presses equipped with Pressure Fittings — use ALBANY SOFT PRESSURE GREASE.

For oil-lubricated Presses — use ALBANY VISCOUS PRESS OIL. For gears, cams, chain drive (all types of presses) use ALBANY GEAR LUBRICANTS NO. 93.

There's only one way to experience the many advantages of ALBANY lubricants made for press lubrication —that's to try them. Write today for Service Bulletin No. 10.

ADAM COOK'S SONS, INC.
Mfrs. of Albany Lubricating Products
LINDEN, NEW JERSEY

John T. Renshaw has been appointed Manager of the Philadelphia office of E. P. Lawson Co., Inc., New York, it was announced by President David W. Schulkind. Before joining the E. P. Lawson Co., Mr. Renshaw was with the Miller Printing Machinery Co. During

Announcement by David Schulkind indicates that J. T. Renshaw has been made manager of E. P. Lawson Co.'s Philadelphia office.

the last war he was employed on the Manhattan Project (atomic energy) in charge of New England vendors for E. I. Du Pont de Nemours & Co., Inc. Mr. Renshaw attended Gettysburg (Pa.) College.

James F. Newcomb, president of James F. Newcomb Co., Inc., New York City, and nationally prominent figure in the commercial printing industry, died June 15 in Roosevelt Hospital, after an illness of several months. He was 68 years old. In 1945, Mr. Newcomb was the principal organizer and first president of Printing Industry of America, Inc., national association of the commercial printing industry which succeeded the 60-year-old United Typothetae of America and other national organizations. As president of PIA for two years, and before that as chairman of the war-born Joint Committee on Government Relations of the Commercial Printing Industry, which merged with PIA, Mr. Newcomb devoted most of his time and energies to protecting and promoting the interests of the industry of which he was a part. In his own business Mr. Newcomb specialized in form and utility printing for large corporations on a long-term contract basis. Since 1912 the Newcomb company has been one of the important suppliers of the Bell Telephone System, and for the past eight years it has handled the City's form printing contracts.

Walter E. Soderstrom, executive secretary of the National Association of Photo-Lithographers, on June 7 was appointed District Deputy Grand Master of the Third Kings District, Brooklyn, N. Y. Mr. Soderstrom was raised in Mistletoe Lodge No. 647 F. and A. M. in 1942 and served as Master in 1947.

William J. Berry, Mechanical Superintendent of the New York *Daily News*, died on Tuesday, June 15 in the Jewish hospital, Brooklyn. He had been ill since May 4. He was 48. He leaves Mrs. Barry and daughter Joan. He entered employ of the *News* in 1926. Mass was offered at Our Lady of Refuge Catholic Church, Brooklyn, on Saturday, June 19.

Excellent Promotion

Printing Equipment Engineer has received from H. Marsden, Works Manager of The Co-operative Press, Manchester, Eng., a copy of a booklet which is presented to visitors to that company's plant. The booklet is 7¼ in. by 9¾ in. and is plastic bound, contains 20 pages and is printed on white bristol board. The booklet is appropriately titled *A Candid Camera at the Co-operative Press*. Each page contains better than 50% halftone illustrations and accompanying captions briefly describing for the unitiated the various editing and mechanical steps employed in printing newspapers and magazines. Picture making, hand and machine, composition, stereotype plate making, presswork, binding and shipping are explained through pictures and text. Newspaper, platen and perfector presses are shown in operation in the Co-operative plant. This booklet certainly should be a fine means for making friends, particularly since it is presented to the visitor after having been conducted through the mechanical departments. Mr. Marsden visited the United States early in 1947. Many American printing executives will recall the pleasant association with him.

The Nolan Corporation (Rome, N. Y.) has announced appointment of Jerry Moss as director of sales for the Corporation. He will handle both domestic and export sales. Moss entered the printing equipment field in 1936 as a salesman for Payne & Walsh; during the recent war he was associated with John Griffiths Co., New York. In November 1947 he organized with his son Jerry jr., the American Printing Machinery Co., Inc., of New York. This business will now be conducted by his son who is a graduate of Carnegie Institute of Technology. Mr. Moss plans to organize and expand the sales activities of Nolan Corporation.

The well-known type house of Monsen-Chicago announces a change of management for its Los Angeles branch. The west coast type service which was put into operation August, 1947 will, effective May 10, be headed by Guy Logan. Mr. Logan spent 15 years at the Chicago office. His experience in this field has been in production as well as sales and management. The past five years have been in executive capacity working closely with Myron T. Monsen jr., head of the organization.

TYPE METAL REMELTING FURNACES

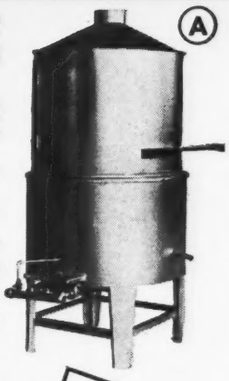
(A) 'Surface' Type Metal Remelting Furnace equipped with Atmospheric Burner and hood. Available in capacities up to 2500 pounds of metal.

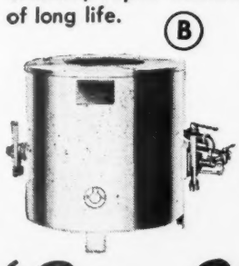
(B) 'Surface' Type Metal Remelting Furnace equipped with Pressure Burner. Available in capacities up to 3200 pounds of metal.

(C) Furnace equipped with atmospheric burner and bottom outlet.

(All types can be equipped with hood)

'Surface' Gas-Fired Furnaces for type metal remelting are designed to provide the industry with an efficient, rapid remelting furnace of long life.





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'Surface' Standard Rated FURNACES

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New, Used and Rebuilt

COMPOSING ROOM EQUIPMENT

Linotype and Intertype motors all voltages.

Linotype and Intertype 72 and 90 channel magazines.

Linotype and Intertype Monomelts.

Automatic metal feeders for all typecasting machines.

Linotype Mold Disks (Pat. 2052378).

New and Used Saw Trimmers.

Operators' Posture Chairs.

Gas and Electric Melting Pots.

Dial type metal Thermometers.

Thousands of Linotype and Intertype Liners in stock for immediate shipment.

24-Hour Knife Grinding service.

Complete Linotype and Intertype Machine Rebuilding. Write for details.

Send us a list of your surplus equipment.

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TESCH SAW FILER

Absolute Accuracy built for the publishing trade. Guides the sharpening of the saw blades from a machined index plate. AUTOMATIC—Either Hand or Electric driven.

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TESCH SAW SWAGER

The only Swager built for the Graphic Arts. Accurately SWAGES more than 100 teeth a minute.

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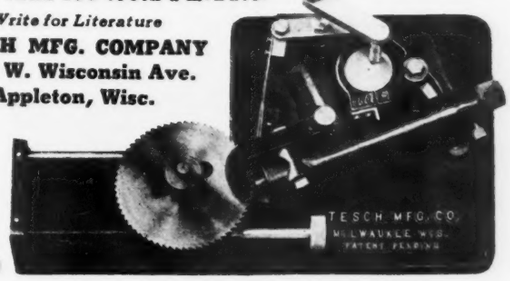


in stainless steel liners... it's precision that counts!

That's why LINSCO LINERS enjoy unsurpassed popularity. That's why we spare no effort or quality raw materials to produce and deliver a superb product.

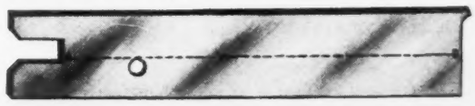
LINSCO LINERS are manufactured from only the *finest* stainless steel . . . ground to an accuracy to insure dependable precision.

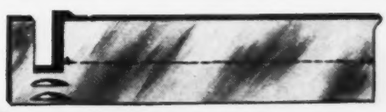
(A-B) Ground with a slight taper from right to left to allow for warping of cap, reducing the possibility of "hair-lines".

(C-D) Accurately ground to .875 . . . standard height

PRICES: Regular UA—Linotype and Intertype.....$1.60
Recessed 3.15
Head Letter old style and new style..... 4.40

Send for your supply of LINSCO LINERS now!





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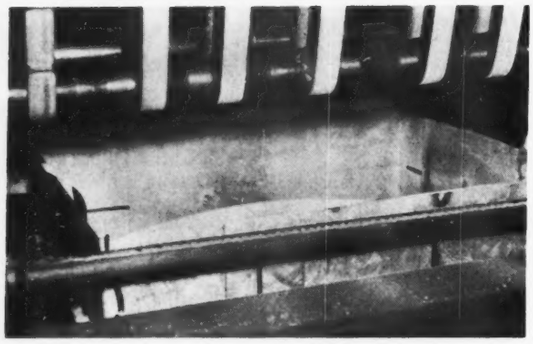
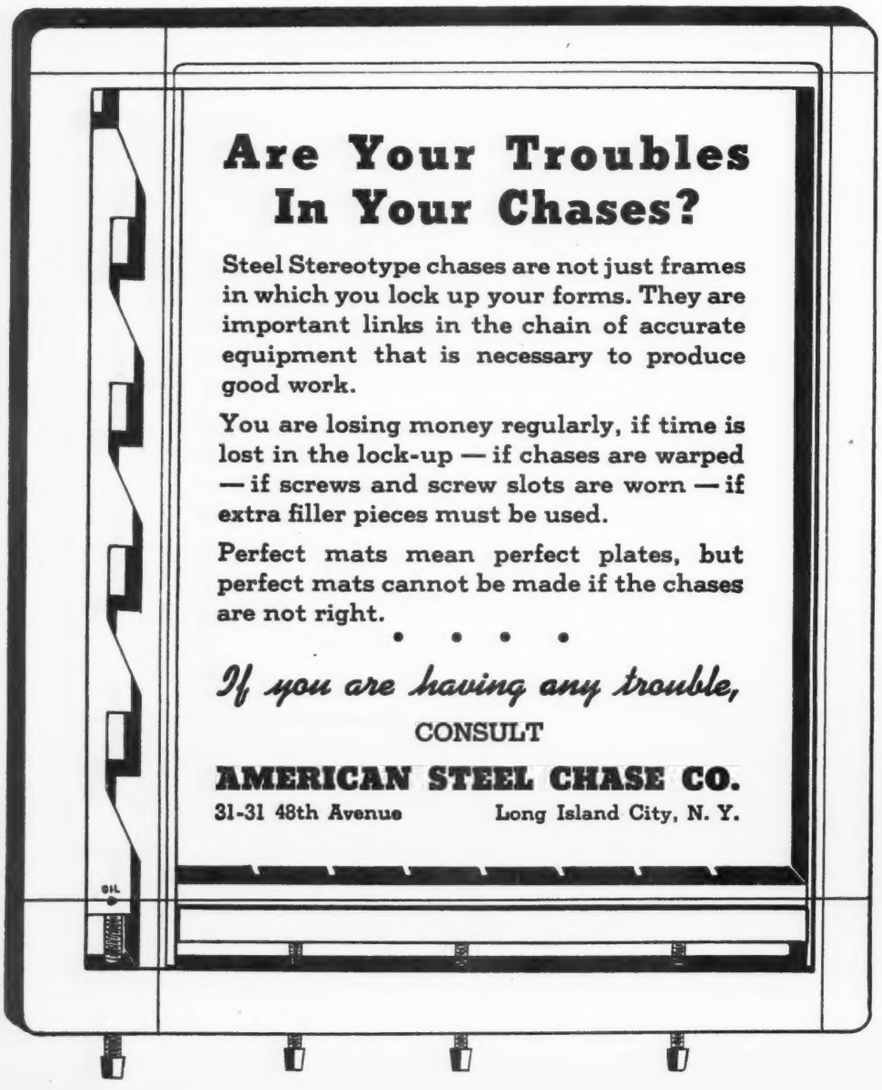


Special Delivery Box for Kelly

McLEAN WHITTET JR., Plant Manager of Whittet & Stepperson, Richmond, Va., devised an auxiliary delivery box for use on a Kelly press that takes care of small forms by stacking the sheets evenly all around.

The auxiliary delivery box is made of four pieces of galvanized sheet iron each formed into the shape of an L. A long slot is cut in one part of each of the four pieces while a bolt is welded to the other part of each L shaped piece. The bolts are smoothed off on the inside so as to not interfere with the paper sheets when delivered to the box.

The bolts fit into the slots, a wing nut being used to tighten the two pieces so fastened. This auxiliary delivery box is fastened at either side to the delivery table. By unfastening the wing nuts the auxiliary delivery box can be made wider or narrower and also larger or smaller by moving the wall sections in or out. With this three-way adjustment it is possible to make the auxiliary delivery box as small as necessary to take small forms.


Are Your Troubles
In Your Chases?
Steel Stereotype chases are not just frames in which you lock up your forms. They are important links in the chain of accurate equipment that is necessary to produce good work.
You are losing money regularly, if time is lost in the lock-up — if chases are warped — if screws and screw slots are worn — if extra filler pieces must be used.
Perfect mats mean perfect plates, but perfect mats cannot be made if the chases are not right.
If you are having any trouble,
CONSULT
AMERICAN STEEL CHASE CO.
31-31 48th Avenue
Long Island City, N. Y.

COMICS

(Continued from Page 76)

two passes. One side is printed, run through the oven, dried, printed on the other side, dried again, sheeted and stacked. The firing equipment consists of two atmospheric gas burners utilizing 528 Btu manufactured gas, at 6 in. W.C., each burner having an input of 185,500 Btu's. In the drying of the web, products of combustion travel along with the heated air from the blowers, and a temperature of from 200 deg. to 350 deg. F. is maintained by automatic thermostat control. The temperature is varied according to the speed of the web, which is, under normal conditions, approximately 350 ft. per min. An indicating pyrometer shows the press foreman exactly what the temperature is in the oven at all times. The covers are printed four up on 22 in. web, the cut-off being approximately 28 in. Then they are cut and sent to binding machines, where the fillers, which have come from the Eastern Color plant, are stitched.

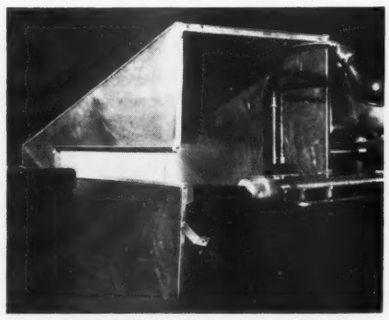
Lightweight Saw Hood

A LIGHT and easy-to-handle hood or chip guard for the saws in the composing room is used in the plant of the Altoona (Pa.) *Mirror*. It is the idea of Lee R. Stull, superintendent of the composing room, and in part of David Getz, a sheet metal worker in Altoona.

Mr. Stull had the idea of making a sheet aluminum hood for each saw so he called in Mr. Getz and took up the matter with him. Mr. Getz suggested that material and cost would be saved by not making the hood come to the floor. So between them a hood was designed that reached only part way to the floor.

Each hood weighs only 5 lbs. It can easily be handled by one man. A steel frame was fastened to each saw frame and this frame supports the hood. On the saws used for cutting large base the hood is slotted on one side so that in sawing large cuts or bases the hood does not restrict the movement of the material being cut.

To get at the motor or any other part of the saw it is a matter of less than a minute to take the hood off. After maintenance work has been done it is just as easy to replace the hood.



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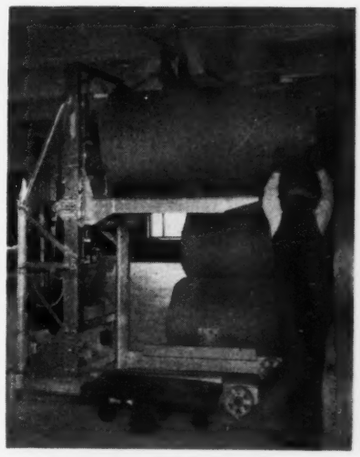

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BALTIMORE NEWS POST BUILDING
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Plants Merge — *Guide-Kalkhoff and Burr Printing Plant Combination in New York plan $500,000 modernization expenditure*

AN AGGRESSIVE plan for establishing greater production through "concentration" and modernization got under way with the merger of two Graphic Arts organizations in New York, N. Y. These are Guide Printing Co., Inc.-The Kalkhoff Press and the historically famous Burr Printing House, Inc. Charles E. Schatvet, 36-year-old president of the newly combined firm of Guide-Kalkhoff-Burr, Inc., announced the merger declaring his organization will spend $500,000 within the next few years for the improvement of existing machinery.

Explaining the "concentration" move, Mr. Schatvet stated, "I've found that by eliminating equipment that isn't constantly in use and by operating on a two-shift basis in every department, or three shifts where necessary, we can reach a productive capacity through this concentrated set-up that's hard to beat." In line with this theory, the number of presses in the possession of both merged plants will be cut down, utilizing the best elements of each and adding some of the newest presses available to increase capacity.

Schatvet stressed that his new outfit is geared to meet the requirements of organizations with point-of-sale material and house organs to get out; advertising, public relations, and social work agencies; book and periodical publishers, banking institutions, steamship companies and travel agencies, department stores, and other organizations with something to "sell".

Guide-Kalkhoff-Burr, Inc., will have as its equipment a battery of Miehle Verticals, No. 29s, No. 41s, No. 56s, and 5–0s in one and two-color models. Deliveries of this Machinery to the plant at 225 Varick Street, Manhattan, have already started.

Bindery facilities will include six Dexter and Cleveland folders, three Seybold cutters, a Christiansen gang stitcher, and other equipment. A further concentration of equipment was effected with the elimination of five of the 17 composing machines previously operated by both plants. The remaining 12 include nine quadding and centering Intertype mixers and Ludlow equipment.

Famous names and deeds saturate the history of the Burr Printing House, one

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Four or five unit newspaper rotary press, not more than 10 to 12 years old. Must be end feed or convertible, be equipped with angle bars, two folders, and formers. One or two units equipped for color, (3 colors and black) must be in *good* mechanical condition. (Speed 35,000 to 45,000 per hour.)

Address all communications to
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25 x 38 Premier Cylinder Press, rebuilt.
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50 fonts, slightly used mats. Ask for mat list.

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Two-motor full automatic newspaper press drives and control panels, 220 volt, 3 phase, 60 cycle AC, complete with resistors and push button stations:
2 Cutler Hammer 40/3 HP faceplate type, equipped to parallel.
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All used, serviceable, being replaced with larger drives. Immediately available.

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Also New and Used Motor Drives

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Why the cow jumped over the moon—
they did not have a new Reid milking machine.

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EQUIPMENT AND SUPPLIES FOR NEWSPAPERS, PUBLISHERS, PRINTERS, LITHOGRAPHERS AND ENGRAVERS.

of the component parts of the merger. Started originally in 1839 by John A. Gray, the Burr outfit got its name from the landlord of the structure it was housed in for 80 years. The Burr Building located at 16-18 Jacob Street, Manhattan, was owned by Henry A. Burr, grandson of Aaron Burr. Samuel W. Green, who joined Gray in 1842 and later became a partner, invented the Burr Typesetting Machine, the first commonly-used machine of its kind in this country. Subsequently known as the Empire Composing Machine, the original also received its name from Landlord Burr, who advanced money for its development and later joined the organization in an active capacity. The Mergenthaler "Milestones of Machine Typesetting" Museum in Brooklyn has two units of the original model on display; one unit for composing type and the other for distribution.

From a letter sent to his mother and published in the Hannibal (Mo.) *Daily Journal* by his brother, we learn that Samuel Clemens (Mark Twain) worked for Gray for 23c per thousand ems.

The Guide Printing Co. was "young" compared with Burr's 111 years of existence. The late Einar Schatvet started the firm with two partners in 1903. Charles E. Schatvet became president of Guide in 1939 at the age of 27, after the death of his father, Einar. The young Schatvet had received a degree in printing at Carnegie Tech six years before. In 1942 Guide Printing merged with The Kalkhoff Press, founded 40 years earlier by the late G. Frederick Kalkhoff.

Roy L. Hansen, head of the Burr firm before the merger, has been named Vice President and General Manager of Guide-Kalkhoff-Burr, Inc. Miss Annie L. Green, Lawrence Landsman, Clarence P. Bowyer, and Martin J. O'Keeffe—all vice presidents of the new firm—held similar positions with Guide-Kalkhoff.

Klingrose Machine Corporation

150-20th STREET, BROOKLYN 32, N. Y.

MANUFACTURERS OF

Roto Gravure Printing Presses

Students Visit Chicago

Students from South Dakota State College at Brookings, were guests of the Chicago Printing Industry during a four-day tour of Printing and Manufacturing plants May 5 to 8.

Among the plants visited were R. R. Donnelly & Sons Co., Acme Type Foundry, Rand McNally & Co., Samuel Bingham's Mfg. Co., Jahn & Ollier Engraving Co., Miehle Ptg. Press & Mfg. Co., Tompkins Printing Equipment Co., Ludlow Typograph Co., and the *Sun-Times* newspaper.

The Printonian Tour sponsored this year by Tompkins Printing Equipment Co., Chicago, is an annual junket made to some midwest city to acquaint printing and journalism students with printing methods and machines.

WORLD-HERALD

(Continued from Page 69)

the other handles freight. They are of the push-button type (self-service), no operators.

New Equipment Items

As is the case with new-plant or equipment modernization programs, the *World-Herald* purchased a considerable quantity of equipment items to bring its plant up-to-date. These are listed as follows:

Composing Room: Three Intertype F4-4sm; 1 Intertype GV-4sm; 1 Elrod; 1 Vandercook safe electric proof press; 4 Hammond saws; 2 type cabinets; Monotype machinist's bench; 2 machinists' benches, 60 in. and 80 in.; 24 Stereotype Autoplate chases.

Stereotype Department: Giant Goss molder; Master Sta-Hi mat former; Kemp 6 T. metal pot for casting comic plates; Goss comic vacuum back casting box; Goss comic tail cutter; Goss comic color plate cylinder shaver; Goss beveling machine; Goss chipping block; nickeling tank; two Wood vacuum back Junior Autoplate casting boxes; Kemp 8 T. metal pot; Wood heavy duty Auto shaver with milling attachment; Form-O-Scorch flat mat roaster; Form-O-Scorch curved mat former.

Engraving Department: Robinson 31 in. Precision camera, (the engraving room has two other cameras); Pitman vacuum printing frame; Master developing tank; Ostrander-Seymour saw and trimmer; Master etching machine; Chemco etching machine.

Pressroom: Goss Headliner High-Speed press, with anti-friction, double folder, balloon formers, six units, 60,000 per hr. capacity. Goss hard-packing, high speed, 8-cyl. color press. 36,000 per hr. capacity. Elwell-Parker newsprint roll handling electric truck.

Mail Room: Print Weight Toledo dock scale; new conveyors; tables.

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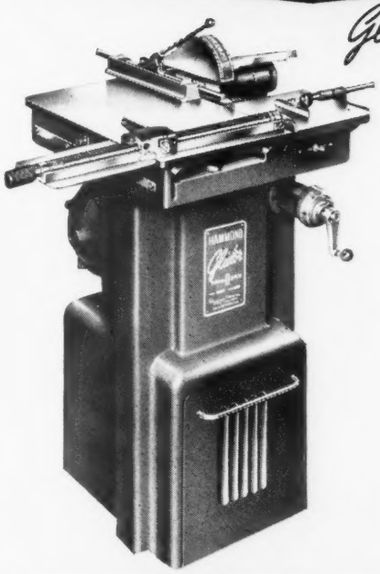
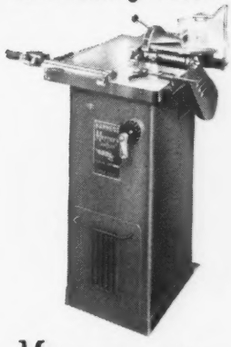
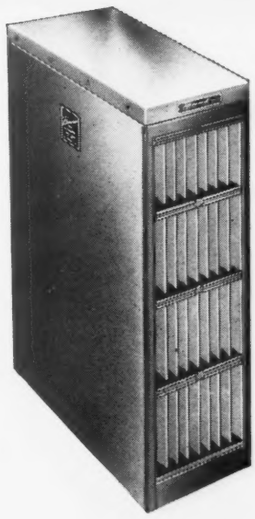


Glider TRIMOSAW
MODEL G-4
"The Saw with the Ball Bearing Table"



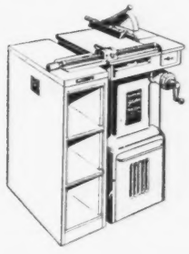
Mercury TRIMOSAW
MODEL M-9
"The Saw with the Ball Bearing Gauge"

STRIP MATERIAL CABINET



THE MODEL No. 32

The Model No. 32 Strip Material Cabinet is designed and made for use with past and present Hammond TrimOsaws. The 32 compartments will accommodate 1800 lbs. of full length rule and border material.



The Model No. 320 Strip Material Cabinet without dividers for bulk storage, illustrated with the Glider TrimOsaw.

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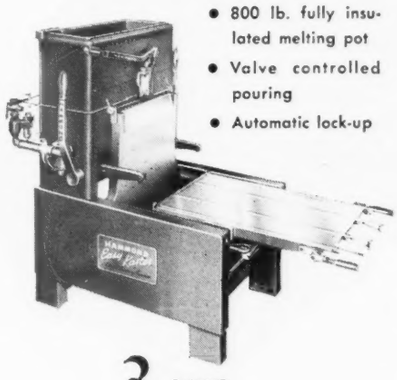
FULL PAGE *EasyKaster "8"*
MODEL EK-8P



- 800 lb. fully insulated melting pot
- Valve controlled pouring
- Automatic lock-up

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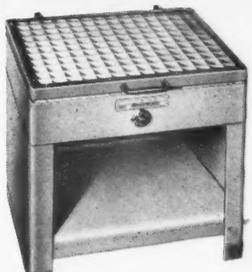
MODEL EK-5, 5 col. x 20"
MODEL EK-6, 6 col. x 24"
MODEL EK-8, 8 col. x Full-Page

- Available with automatic metal temperature control.
- Gas or Electric operation.

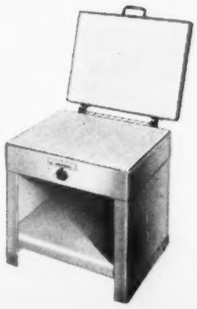
SCORCHERS



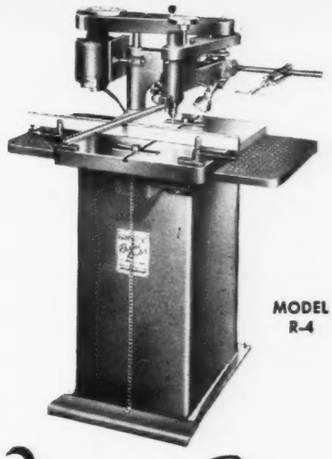
Electric
FULL-PAGE
Scorcher

- New grilled cover design gives fast moisture elimination.
- Aluminum scorching bed speeds heating up time, and provides greater uniformity of temperature distribution.
- Variable thermostat provides desired scorching temperature.

MODEL T23-30



ROUTERS



MODEL R-4

2 HAMMOND *Routers*

Model R-4 Radial Router (illustrated)

Model RP-12 RouterPlaner

- Constant speed, regular type motor.
- Belted drive to ball bearing spindle.
- Full-Page capacity.

Hammond Machinery Builders INC.
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Looks simple

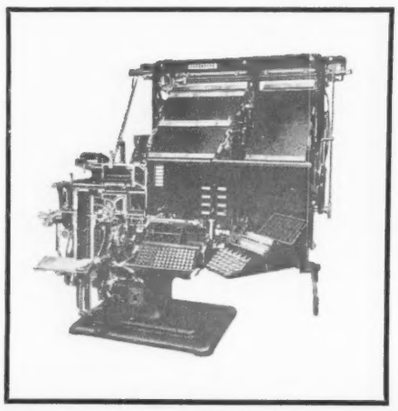
No...but it is easy

Operation of the modern Intertype looks deceivingly simple to the layman. It may not be simple but it *is* easy...a far cry from the work required to set type even a few years ago.

Intertype's Autospacer, for example, has eliminated many manual motions when quadding or centering is required. The six-mold disk has reduced liner changes to a minimum. Finger-flip shifting between two magazines has made mixing a pleasure, and Intertype's "No-Turn" Autoshift has taken the muscle out of mixing between pairs. These two features combined with Intertype's *continuous distribution* keep fingers flicking over the keyboard with a steadier, uninterrupted rhythm. The machine clicks along to a music of its own.

Years of research by the best-qualified engineers have made this ease of operation possible. It is just one more reason why Intertypes are so much in demand today.

Look to Progressive Intertype



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